

**APPENDIX B**  
**BORING, CPT, AND WELL INSTALLATION LOGS**

*This page intentionally left blank.*

Project SAIALogged By E. CilleriaBoring No. SAIA-SB1Project Number 07143.0004Date Drilled 4/5/13Sheet 1 Of 1Location Seam MastersTotal Depth 35'

Boring Location Sketch

Surface Elevation w/aBoring Diameter 2"Drillers Gregg DrillingMethod direct push

Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION
0.5							Poorly graded sand; loose; light brown & olive gray; dry; 95% fine sand; 5% fines.
2							No change.
5							Poorly graded sand; loose; brown & greenish gray; dry; mostly fine sand; trace fines.
15							Poorly graded sand; loose; yellowish brown & olive gray; damp; 90% fine sand; 10% fines.
25							Silty sand; med. stiff; light brown; damp; 50% fine sand; 50% fines. low plasticity.
35							Poorly graded sand; loose; olive gray & light gray; dry; 85% med to fine sand; 15% fines.

Casing Diameter \_\_\_\_\_ Casing Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Screen Size \_\_\_\_\_ Screen Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Sand Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Bentonite Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Cement/Grout \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Surface Completion \_\_\_\_\_


**Innovative  
Technical  
Solutions, Inc.**

Boring No. SAIA-SB03

Date Drilled 4/1/13

Sheet / Of /

Total Depth 35'

Boring Diameter 2"

Drillers Gregg Drilling

Method div2 of push

### Boring Location Sketch



Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION
0.5							Poorly graded sand; loose; olive gray & dark gray; dry; mostly fine sands; trace fines.
2							No change.
5							Silty sand; med. stiff; olive gray; dry; 60% fine sand; 40% fines; low plasticity.
15							Silty sand; med. stiff; olive gray & dark gray; damp; 50% fine sand; 50% fines; low plasticity
25							No change.
35							Poorly graded sand; loose; light gray & olive gray; dry; 90% fine sand; 10% fines.

Casing Diameter \_\_\_\_\_ Casing Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Screen Size \_\_\_\_\_ Screen Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Sand Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Bentonite Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Cement/Grout \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Surface Completion \_\_\_\_\_



**Innovative  
Technical  
Solutions, Inc.**

Project SAIALogged By E. GiltnerBoring No. SAIA-SBUProject Number 07163.0044Date Drilled 4/1/13Sheet 1 Of 1Location Stam MastersTotal Depth 35'

Boring Location Sketch

Surface Elevation n/aBoring Diameter 2"Drillers Craig DrillingMethod direct push

Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS
0.5						
2						
5						
15						
25						
35						

## DESCRIPTION

Poorly graded sand; loose; olive gray; dry;  
mostly fine sand; trace fines.  
No change.

Poorly graded sand; loose; olive gray; dry  
70% med to fine sand; 30% fines.

Silty sand; med. stiff; brown & dark gray; damp;  
mostly fine sand; 25% fines; med. plasticity.

Silty sand; soft; olive gray & dark gray; damp;  
60% fine to fine sand; 40% fines; low plasticity.

No change.

Casing Diameter \_\_\_\_\_ Casing Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Screen Size \_\_\_\_\_ Screen Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Sand Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Bentonite Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Cement/Grout \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Surface Completion \_\_\_\_\_



**Innovative  
Technical  
Solutions, Inc.**

**Boring No.** SAIA-SBG

Sheet 1 Of 1

Total Depth 35'

Boring Diameter 2"

### Boring Location Sketch

Drillers Gregg Drilling

Method direct push

	Depth (Feet)
0.5	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
Sample Interval	
Blow Counts	
PID (ppm) B-zone/stem/sample	
Water Level	
Well Construction	
Lithology / USCS	

## DESCRIPTION

Modestly graded sand; loose; ~~tan~~ light gray to dark gray; dry; mostly sand, med. to fine; trace fines. No change.

Poorly graded sand; loose; olive gray; dry;  
75% fine sand; 25% fines.

silty sand; med. stiff; light gray; damp;  
60% fine sand; 40% fines; med. plasticity.

Silty sand; med. stiff; light gray to dark gray;  
moist; 70% fine sand; 30% fines; med. plasticity

Poorly graded sand; loose; olive gray & light gray;  
damp; 65% fine sand.

Casing Diameter \_\_\_\_\_ Casing Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Screen Size \_\_\_\_\_ Screen Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Sand Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Bentonite Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Cement/Grout \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Surface Completion \_\_\_\_\_



**Innovative  
Technical  
Solutions, Inc.**

Boring No. SAIA-SRB

Sheet 1 Of 1

Total Depth 35'

Boring Diameter 2"

Drillers Gregg Drilling

Method direct push

### Boring Location Sketch



Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION
0.5							Poorly sorted sand, graded sand; loose; olive gray; dry; 95% fine sand; 5% fines
2							Moderately graded sand; loose; light gray & light brown; dry; mostly sand, med. to fine; trace fines.
5							Poorly graded sand; loose; light gray & olive gray; dry; 60% fine sand; 40% fines.
15							Silty sand; med. stiff; light gray; damp; 60% fine sand; 40% fines; med. plasticity.
25							No change.
35							Poorly graded sand; loose; greenish gray & light brown; dry; 90% med to fine sand; 10% fines.

Casing Diameter \_\_\_\_\_ Casing Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Screen Size \_\_\_\_\_ Screen Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Sand Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Bentonite Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Cement/Grout \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Surface Completion \_\_\_\_\_



**Innovative  
Technical  
Solutions, Inc.**

Boring No. SAIA-SB9

Sheet 1 Of 1

Total Depth 35'

Boring Diameter 2"

### Boring Location Sketch

Drillers Gregg Drilling

Method direct push

[illegible]

## DESCRIPTION

poorly graded sand; loose; dark gray; dry;  
mostly sand, fine; trace fines.  
no change

No change

Poorly graded sand; loose; olive gray; dry;  
80% fine sand; 20% fines.

Poorly graded sand; loose; olive gray & greenish gray;  
damp; 70% fine sand; 30% fines.

Poorly graded sand; loose; olive gray; dry;  
75% fine sand; 25% fines.

Casing Diameter \_\_\_\_\_ Casing Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Screen Size \_\_\_\_\_ Screen Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Sand Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Bentonite Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Cement/Grout \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Surface Completion \_\_\_\_\_



**Innovative  
Technical  
Solutions, Inc.**



Boring No. SAIA-SB10

Date Drilled 4/5/13

Sheet 1 Of 1

Total Depth 35'

### Boring Location Sketch

Boring Diameter 2"

Drillers Gregg Drilling

Method direct push



Depth (Feet)		Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION
0.5								Poorly graded sand; loose; olive gray & light gray; dry; mostly sand, fine; trace fines.
2								No change.
5								No change.
15								Silty sand; med. stiff; olive gray; damp; mostly fines; some fine sand; med. plasticity.
25								No change.
35								Poorly sorted sand; loose; greenish gray; damp <sup>er</sup> moist; 90% fine sand; 10% fines.

Casing Diameter \_\_\_\_\_ Casing Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Screen Size \_\_\_\_\_ Screen Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Sand Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Bentonite Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Cement/Grout \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Surface Completion \_\_\_\_\_



**Innovative  
Technical  
Solutions, Inc.**

Project SAIALogged By E. GillerBoring No. SAIA-SB11Project Number 07163.0001Date Drilled 4/3/13Sheet 1 Of 1Location Scam MastersTotal Depth 35'

Boring Location Sketch

Surface Elevation w/aBoring Diameter 2"Drillers Gregg DrillingMethod direct push

Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/term/sample	Water Level	Well Construction	Lithology / USCS
0.5						
2						
5						
15						
25						
35						

## DESCRIPTION

Poorly graded sand; loose; yellowish brown & dark gray;  
dry; 45% med to fine sand; trace fines.

No change.

No change.

Poorly graded sand; loose; olive gray & dark brown;  
damp; 80% sand, fine; 20% fines.

Silty sand; med stiff; olive gray & light gray; moist;  
mostly fines; some fine sand; med. plasticity.

Poorly graded sand; loose; olive gray & light brown;  
damp; 90% fine sand; 10% fines.

Casing Diameter \_\_\_\_\_ Casing Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Screen Size \_\_\_\_\_ Screen Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Sand Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Bentonite Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Cement/Grout \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Surface Completion \_\_\_\_\_



**Innovative  
Technical  
Solutions, Inc.**

Boring No. JW-SB1

Sheet 1 Of 1

Total Depth 35'

Boring Diameter 2"

Drillers Craig Drilling

Method direct push

### Boring Location Sketch



Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	Drillers <u>Craig Drilling</u> Method <u>direct push</u>	
							DESCRIPTION	
5							moderately graded sand; loose; dark gray; dry; mostly sand, fine, rounded; trace fines	
15							Silty sand; med. stiff; dark gray; damp; mostly fines; some fine sand; med. plasticity.	
25							moderately graded sand; loose; dark gray; moist; mostly sand, fine; 15% fines.	
35							Well graded sand; loose; light brown & gray; dry; 90% sand, med to fine; 10% fines.	

Casing Diameter \_\_\_\_\_ Casing Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Screen Size \_\_\_\_\_ Screen Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Sand Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Bentonite Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Cement/Grout \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Surface Completion \_\_\_\_\_



**Innovative  
Technical  
Solutions, Inc.**

**Boring No.** VW-SBZ

Date Drilled 4/9/13

Sheet 1 Of 1

Total Depth 35'

Boring Diameter 2"

Drillers Gregg Drilling

Method Dirzot push

### Boring Location Sketch



Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	Drillers <u>Gregg Drilling</u> Method <u>Direct push</u>	DESCRIPTION
5'								Moderately graded sand; loose; olive gray to dark gray; dry; mostly sand, rounded <sup>fine</sup> , rounded, 20% fines.
15'								Silty sand; med. stiff; olive gray to dark gray; damp; <del>fine sand</del> 60% fine sand; 40% fines; med. plastic
25'								Moderately graded sand; loose; dark gray; damp; mostly sand, fine; 15% fines.
35'								Well graded sand; loose; light brown & gray; dry; 90% fine sand; rounded; 10% fines.

Casing Diameter \_\_\_\_\_ Casing Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Screen Size \_\_\_\_\_ Screen Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Sand Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Bentonite Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Cement/Grout \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Surface Completion \_\_\_\_\_



**Innovative  
Technical  
Solutions, Inc.**

Project SATALogged By E. GilleraBoring No. VW-SB3Project Number 07163.0004Date Drilled 4/4/13Sheet 1 Of 1Location Reliable SteelTotal Depth 35'

Boring Location Sketch

Surface Elevation w/gBoring Diameter 2"Drillers Gregg DrillingMethod direct push

Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS
		5				
		15				
		25				
		35				

## DESCRIPTION

Poorly graded sand; loose; dark brown & dark gray;  
dry; 80% fine sand; 20% fines

Silty sand; med. stiff; olive gray & dark gray; damp;  
mostly fines; some fine sand; med. plasticity

Poorly graded sand; loose; olive gray & light brown;  
moist; 85% fine sand; 15% fines.

Poorly graded sand; loose; light gray to olive gray,  
dry; 80% fine sand; 20% fines.

Casing Diameter \_\_\_\_\_ Casing Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Screen Size \_\_\_\_\_ Screen Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Sand Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Bentonite Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Cement/Grout \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Surface Completion \_\_\_\_\_



**Innovative  
Technical  
Solutions, Inc.**

Project # 07163.0004

Logged By E. Cillera

Boring No. JW-SB4

Project Number SATA

Date Drilled 4/4/13

Sheet / Of /

Location Reliable Steel

Total Depth 35'

Surface Elevation u/a

Boring Diameter 2"

Drillers Gregg Drilling

Method direct push

### Boring Location Sketch



Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	Drillers <u>Gregg Drilling</u> Method <u>direct push</u>	
							DESCRIPTION	
5							moderately graded sand; loose; dark brown & dark gray; dry; 75% fine sands; 25% fines.	
15							silty sand; med. stiff; olive gray; damp; mostly fines; some fine sand; med. plasticity.	
25							Poorly graded sand; loose; light brown & light gray; damp; 80% fine sand; 20% fines.	
35							Poorly graded sand; loose; light gray to olive gray; dry; 70% fine sand; 30% fines.	

Casing Diameter \_\_\_\_\_ Casing Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Screen Size \_\_\_\_\_ Screen Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Sand Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Bentonite Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Cement/Grout \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Surface Completion \_\_\_\_\_



**Innovative  
Technical  
Solutions, Inc.**

Project SATALogged By E. GillerBoring No. JW-SB5Project Number 07143.0064Date Drilled 4/4/13Sheet 1 Of 1Location Reliable SteelTotal Depth 35'

Boring Location Sketch

Surface Elevation 41.5Boring Diameter 2"Drillers Gregg DrillingMethod direct push

Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS
5						
15						
25						
35						

## DESCRIPTION

Moderately graded sand; loose; dark gray; dry;  
mostly sand, fine; 20% fines.

Silty sand; med. stiff; dark gray; damp; mostly fines,  
15% fine sands; med. plasticity.

Poorly graded sand; loose; olive gray & light brown;  
moist; mostly sand, fine; 5% fines.

Moderately graded sand; loose; light gray to olive  
gray; dry; mostly sand, fine; trace fines.

Casing Diameter \_\_\_\_\_ Casing Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Screen Size \_\_\_\_\_ Screen Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Sand Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Bentonite Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Cement/Grout \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Surface Completion \_\_\_\_\_



**Innovative  
Technical  
Solutions, Inc.**

Boring No. ✓W-SB6

Date Drilled 4/4/13

Sheet / Of /

Total Depth 35'

### Boring Location Sketch

Boring Diameter 2"

Drillers Oregg Drilling

Method direct push

Depth (Feet)	
Sample Interval	
Blow Counts	
PID (ppm) B-zone/stem/sample	
Water Level	
Well Construction	
Lithology / USCS	

DESCRIPTION

Poorly graded sand; loose; dark brown & dark gray;  
dry; mostly sand; trace fines.

Silty sand; med. stiff; dark gray; damp; mostly sand, fine; 10% fines; med. plasticity

Poorly graded sand; loose; gray to dark gray; moist, mostly sand, fine; 15% fines.

Poorly graded sand; loose; light brown and gray;  
dry; mostly sand, fine; trace fines.

Casing Diameter \_\_\_\_\_ Casing Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Screen Size \_\_\_\_\_ Screen Length \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Sand Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Bentonite Type \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Cement/Grout \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

Surface Completion \_\_\_\_\_



**Innovative  
Technical  
Solutions, Inc.**





# Soils Log Form

Boring No.	JW-SB/5407
------------	------------

Project: JERVIS WEBBProject No.: J163007200Page 1 of 2Client: US EPAStart Date: 3/12/15Logged By: PJ PHILLIPSLocation: SOUTH GATE, CA.Completion Date: 3/12/15

Reviewed By: \_\_\_\_\_

Depth	Sampled Interval			OVA PFB FID	Grain Size & Distribution (to nearest 5%)						max size	Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.		
	Driven	Blows /	Recovery		% fines	% sand			% gravel					Annulus	Casing	
						f	m	c	f	c						
0.5	X											0.5 DARK BROWN (7.5 YR 3/3) SILTY SAND / SANDY SILT, VERY FINE TO FINE GRAINED; MOIST; NO CEMENTATION; WELL TO MODERATELY WELL ROUNDED; WELL SORTED; MINERALOGY: CLAY AND MILKY QUARTZ; BIOTITE; PYRITE; ULTRAMAFICS	SM			
2.0												2.0 LIGHT OLIVE BROWN (2.5 Y 5/3) FINE TO MEDIUM GRAINED SAND, SLIGHTLY MOIST; WELL ROUNDED TO SUB-ANGULAR MINERALOGY: CLEAR, FROSTED, MILKY AND SMOKE QUARTZ; BIOTITE; PYRITE; CHERT; FELDSPAR	SP			
5.0												5.0 DARK BROWN (10 YR 3/3) SILTY, VERY FINE GRAINED SAND, ROUND TO TO SUB-ANGULAR; MOIST, WELL SORTED MINERALOGY: CLEAR AND MILKY QUARTZ; BIOTITE; PYRITE	SM			
15.0												15.0 DARK GRAYISH BROWN (2.5 Y 4/2) VERY FINE GRAINED SAND, ROUND; MOIST; WELL SORTED MINERALOGY: CLEAR AND MILKY QUARTZ; BIOTITE; PYRITE	SP			
25.0												25.0 DARK GRAYISH BROWN (10 YR 4/2) SILTY VERY FINE GRAINED SAND, ROUND TO SUB-ROUND; MOIST; VERY WELL SORTED / POORLY GRADED; WEAKLY CEMENTED MINERALOGY: CLEAR, MILKY AND FROSTED QUARTZ; BIOTITE; PYRITE; ULTRAMAFICS	SM			
35.0												35.0 GRAYISH BROWN (2.5 Y 5/2) TO LIGHT OLIVE BROWN (2.5 Y 5/3) VERY FINE TO MEDIUM GRAINED SAND.	SP			

Signature (logging geologist): Pete X. PhillipsDate: 3/12/15

Signature (reviewer): \_\_\_\_\_

Date: \_\_\_\_\_



# Soils Log Form

Boring No.	JW-5B/5407
------------	------------

Project: JETTIS WEBB

Project No.: J163007200

Page 2 of 2

Client: USDA

Start Date: 3/12/15

Logged By: PJPHILLIPS

Location: SOUTH GATE

Completion Date: 3/12/15

Reviewed By: \_\_\_\_\_

Depth	Sampled Interval			OVA PID FID	Grain Size & Distribution (to nearest 5 %)							max size	Remarks  Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.	
	Driven	Blows /	Recovery		% fines	% sand			% gravel							
						f	m	c	f	c	Annulus				Casing	
1												ROUND TO SUBANGULAR; SLIGHTLY				
2												MOIST; MODERATELY SORTED.				
3												MINERALOGY: CLEAR, FROSTED AND MILKY				
4												QUARTZ; BIOTITE; PYRITE; POTASSIUM				
5												FELDSPAR; RED CHERT; ULTRA MAFICS				
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
32																
33																
34																
35																
36																
37																
38																
39																
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
51																
52																
53																
54																
55																
56																
57																
58																
59																
60																
61																
62																
63																
64																
65																
66																
67																
68																
69																
70																
71																
72																
73																
74																
75																
76																
77																
78																
79																
80																
81																
82																
83																
84																
85																
86																
87																
88																
89																
90																
91																
92																
93																
94																
95																
96																
97																
98																
99																
100																

Signature (logging geologist): \_\_\_\_\_ Date: \_\_\_\_\_  
Signature (reviewer): \_\_\_\_\_ Date: \_\_\_\_\_



# Soils Log Form

Boring No.	JW - SB/5408
------------	--------------

Project: JERVIS WEBB

Project No.: J163007200

Page 1 of 1

Client: U.S. EPA

Start Date: 3/12/15

Logged By: P.J. PHILLIPS

Location: SOUTH GATE, CA.

Completion Date: 3/12/15

Reviewed By: \_\_\_\_\_

Depth	Sampled Interval		OVA	Grain Size & Distribution (to nearest 5 %)					max size	Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.		
	Driven Blows /	Recovery		% fines	% sand			% gravel				Annular	Casing	
					f	m	c	f						c
0.5	X									0.5 VERY DARK GRAYISH BROWN (10YR 3/2) SILTY SAND, SUB-ANGULAR TO ROUND; MOIST; MODERATELY SORTED MINERALOGY: QUARTZ; BIOTITE; PYRITE; ULTRA MAFICS	SM			
2.0										2.0 GRAYISH BROWN (2.5Y 5/2) FINE TO MEDIUM GRAINED SAND, SUB-ANGULAR TO SUB-ROUND; MOIST; MODERATELY SORTED MINERALOGY: QUARTZ; BIOTITE; PYRITE; POTASSIUM FELDSPAR	SP			
5.0										5.0 VERY DARK GRAYISH BROWN (2.5Y 3/2) SILTY SAND/SANDY SILT. VERY FINE GRAINED; WELL ROUNDED, VERY MOIST, WELL SORTED.	SM			
15.0										15.0 SAME AS ABOVE WITH INCREASE IN SILT				
25.0										25.0 DARK GRAY (2.5Y 4/1) SILTY VERY FINE GRAINED SAND, WELL ROUNDED; MOIST TO VERY MOIST; VERY WELL SORTED MINERALOGY: QUARTZ; BIOTITE; PYRITE; MAFICS; ULTRA MAFICS	SM			
35.0										35.0 LIGHT OLIVE BROWN (2.5Y 3/4) FINE TO MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR; SLIGHTLY MOIST; MODERATELY SORTED MINERALOGY: CLEAR, FROSTED, SMOKY AND MILKY QUARTZ; BIOTITE; POTASSIUM FELDSPAR; PYRITE; GREEN AND RED CHERT	SP			

Signature (logging geologist): P.J. Phillips

Date: 3/12/15

Signature (reviewer): \_\_\_\_\_

Date: \_\_\_\_\_



# Soils Log Form

Boring No.	JW-SB/SG09
------------	------------

Project: Jervis Webb

Project No.: J163007200

Page 1 of 1

Client: U.S. EPA

Start Date: 3/19/15

Logged By: P. J. Phillips

Location: South Gate, Ca.

Completion Date: 3/19/15

Reviewed By: \_\_\_\_\_

Depth	Sampled Interval			OVA PID FID	Grain Size & Distribution (to nearest 5 %)						max size	Remarks  Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.		
	Driven	Blows /	Recovery		% fines	% sand			% gravel					Annulus	Casing	
						f	m	c	f	c						
0.5	x											0.5 DARK BROWN (10YR 3/3) VERY FINE TO MEDIUM GRAINED SAND. WELL ROUNDED TO SUB-ANGULAR; MOIST; MODERATELY SORTED MINERALOGY: CLEAR, SMOKEY AND FROSTED QUARTZ; BIOTITE; PYRITE; ULTRA MAFICS	SW			
2.0												2.0 LIGHT OLIVE BROWN (2.5Y 5/3) VERY FINE TO MEDIUM GRAINED SAND. WELL ROUNDED TO SUB-ANGULAR, VERY SLIGHTLY MOIST; MODERATELY SORTED MINERALOGY: CLEAR, MILKY AND FROSTED QUARTZ; BIOTITE, PYRITE, CHERT	SP			
5.0												5.0 VERY DARK GRAYISH BROWN (2.5Y 3/2) SLIGHTLY CLAYEY; SILTY VERY FINE GRAINED SAND. ROUND TO SUB-ANGULAR; MOIST MINERALOGY: CLEAR, MILKY, FROSTED AND SMOKEY QUARTZ; BIOTITE, PYRITE; CHERT; ULTRA MAFICS	SM/SC			
15.0												15.0 SAME AS ABOVE WITH INCREASE IN SILT				
25.0												25.0 SAME AS ABOVE				
35.0												35.0 LIGHT YELLOWISH BROWN (2.5Y 6/3) SILTY FINE TO MEDIUM GRAINED SAND. SUB-ROUND TO SUB-ANGULAR, SLIGHTLY MOIST; MODERATELY-WELL SORTED MINERALOGY: MILKY, CLEAR AND SMOKEY QUARTZ; BIOTITE, PYRITE, IRON STAINING OBSERVED	SM			

Signature (logging geologist): P. J. Phillips

Date: 3/19/15

Signature (reviewer): \_\_\_\_\_

Date: \_\_\_\_\_





# Soils Log Form

Boring No.	JW-SB/SG 10
------------	-------------

Project: Jervis Webb

Project No.: J163007200

Page 1 of 1

Client: U.S. EPA

Start Date: 3/11/15

Logged By: P. J. Phillips

Location: South Gate, Ca.

Completion Date: 3/11/15

Reviewed By: \_\_\_\_\_

Depth	Sampled Interval		OVA PID FID	Grain Size & Distribution (to nearest 5%)						max size	Remarks  Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.		
	Driven Blows /	Recovery		% fines	% sand			% gravel					Annulus	Casing	
					f	m	c	f	c						
	x										4 INCH THICK CONCRETE FLOOR				
0.5											0.5 BROWN (10YR 4/3) SILTY, VERY FINE TO COARSE GRAINED SAND. ANGULAR TO SUB-ROUND; MOIST MINERALOGY: CLEAR AND MILKY QUARTZ APPEARS TO BE SUB-BASE BENEATH FLOOR	SM			
2.0											2.0 SAME AS ABOVE; SUB-BASE FILL MATERIALS				
5.0											5.0 VERY DARK BROWN (10YR 2/2) SILTY SAND/SANDY SILT. VERY FINE GRAINED TO FINE GRAINED, WELL ROUNDED; MOIST; WELL SORTED MINERALOGY: CLEAR QUARTZ; PYRITE; BIOTITE; ULTRAMAFICS, POTASSIUM FELDSPAR, CHERT	SM			
15.0											15.0 DARK BROWN (10YR 3/3) SILTY VERY FINE GRAINED SAND/SANDY SILT. WELL ROUNDED; SLIGHTLY MOIST; WELL SORTED	SM			
25.0											25.0 SAME AS ABOVE WITH DECREASE IN SILT				
35.0											35.0 OLIVE BROWN (2.5Y 4/3) SILTY VERY FINE GRAINED TO MEDIUM GRAINED SAND. WELL ROUNDED TO SUB-ANGULAR; MOIST; MODERATELY SORTED MINERALOGY: CLEAR, MILKY, FROSTED AND SMOKE QUARTZ; BIOTITE, PYRITE, POTASSIUM FELDSPAR, GREEN AND RED CHERT; ULTRAMAFICS	SM			

Signature (logging geologist): P. J. Phillips

Date: 3/11/15

Signature (reviewer): \_\_\_\_\_

Date: \_\_\_\_\_



# Soils Log Form

Boring No.	JW-SB/SG 11
------------	-------------

Project: Jervis Webb

Project No.: J163007200

Page 1 of 1

Client: U.S. EPA

Start Date: 3/9/15

Logged By: P. J. Phillips

Location: South Gate, Ca.

Completion Date: 3/9/15

Reviewed By:

Depth	Sampled Interval			OVA PID FID	Grain Size & Distribution (to nearest 5%)						max size	Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.		
	Driven	Blows /	Recovery		% fines	% sand			% gravel					Annulus	Casing	
						f	m	c	f	c						
	x															
0.5											0.5 DARK YELLOWISH BROWN (10YR 3/4) SP FINE TO MEDIUM GRAINED SAND. WELL-ROUNDED TO SUB-ROUND; MOIST; MODERATELY SORTED. MINERALOGY: CLEAR, MILKY AND SMOKEY QUARTZ; BIOTITE, PYRITE, ULTRA MAFICS					
2.0											2.0 SAME AS ABOVE					
5.0											5.0 VERY DARK GRAYISH BROWN (10YR 3/2) SP MEDIUM GRAINED SAND, WELL ROUNDED TO SUB-ANGULAR; MOIST; VERY WELL SORTED. MINERALOGY: CLEAR, MILKY, SMOKEY QUARTZ; BIOTITE; PYRITE; CHERT; ULTRA MAFICS					
15.0											15.0 DARK GRAYISH BROWN (10YR 4/2) SM SILTY VERY FINE TO MEDIUM GRAINED SAND. WELL ROUNDED; MOIST; POORLY SORTED. MINERALOGY: CLEAR AND MILKY QUARTZ; BIOTITE, PYRITE					
25.0											25.0 DARK GRAYISH BROWN (2.5Y 4/2) SM/SC SLIGHTLY CLAYEY VERY FINE TO MEDIUM GRAINED SAND, WELL TO SUB-ROUND; VERY MOIST, MINERALOGY: CLEAR, SMOKEY AND MILKY QUARTZ; BIOTITE; PYRITE; CHERT; ULTRA MAFICS					
35.0											35.0 LIGHT YELLOWISH BROWN (2.5Y 6/4) SP FINE TO MEDIUM GRAINED SAND, MODERATELY WELL ROUNDED; SLIGHTLY MOIST; WELL SORTED. MINERALOGY: CLEAR, MILKY AND SMOKEY QUARTZ; BIOTITE; PYRITE, ULTRA MAFICS WITH IRON STAINING					

Signature (logging geologist):

Date: 3/9/15

Signature (reviewer):

Date:





# Soils Log Form

Boring No.	JW-SB/SG \ 2
------------	--------------

Project: Jervis Webb

Project No.: J163007200

Page 1 of 1

Client: U.S. EPA

Start Date: 3/16/15

Logged By: P. J. Phillips

Location: South Gate, Ca.

Completion Date: 3/16/15

Reviewed By: \_\_\_\_\_

Depth	Sampled Interval			OVA	Grain Size & Distribution (to nearest 5%)						max size	Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.		
	Driven	Blows /	Recovery		% fines	% sand			% gravel					Annulus	Casing	
						f	m	c	f	c						
	x															
0.5												3 INCH THICK CONCRETE FLOOR				
												0.5 DARK BROWN (2.5Y 3/2) SILTY, VERY FINE TO MEDIUM GRAINED SAND, ROUND TO SUB-ANGULAR; MOIST; MODERATELY WELL SORTED MINERALOGY: CLEAR AND MILKY QUARTZ; BIOTITE; PYRITE; ULTRAMAFICS; CHERT	SM			
2.0												2.0 DARK GRAY (10YR 3/1) SILTY SAND / SANDY SILT, WELL ROUNDED; SLIGHTLY MOIST	SM			
5.0												5.0 VERY DARK BROWN (10YR 2/2) SILTY VERY FINE TO MEDIUM GRAINED SAND, ROUND TO SUB-ANGULAR; MOIST; VERY WELL SORTED. MINERALOGY: CLEAR, FROSTED AND MILKY QUARTZ; BIOTITE; PYRITE; ULTRAMAFICS	SM			
15.0												15.0 DARK GRAYISH BROWN (10YR 4/2) SILTY VERY FINE GRAINED SAND, WELL ROUNDED TO ROUND; MOIST TO VERY MOIST; VERY WELL SORTED MINERALOGY: CLEAR, MILKY AND FROSTED QUARTZ; BIOTITE; PYRITE; CHERT; POTASSIUM FELDSPAR	SM			
25.0												25.0 SAME AS ABOVE WITH COLOR GRADATION TO DARK GRAY (2.5Y 4/1) MOIST				
35.0												35.0 GRAYISH BROWN (2.5Y 5/2) FINE TO MEDIUM GRAINED SAND, ROUND TO SUB-ANGULAR; VERY SLIGHTLY MOIST; MODERATELY WELL SORTED. MINERALOGY: CLEAR, FROSTED AND MILKY QUARTZ; BIOTITE; PYRITE; RED AND GREEN CHERT, ULTRAMAFICS	SW			

Signature (logging geologist): \_\_\_\_\_

Date: 3/16/15

Signature (reviewer): \_\_\_\_\_

Date: \_\_\_\_\_

# Soils Log Form

Boring No.	JW-SB/SG 13
------------	-------------

Project: Jervis Webb

Project No.: J163007200

Page 1 of 1

Client: U.S. EPA

Start Date: 3/12/15

Logged By: P. J. Phillips

Location: South Gate, Ca.

Completion Date: 3/12/15

Reviewed By: \_\_\_\_\_

Depth	Sampled Interval		OVA	Grain Size & Distribution (to nearest 5 %)						max size	Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.		
	Driven	Blows /		Recovery	% fines	% sand			% gravel				Annulus	Casing	
						f	m	c	f						c
	x														
0.5											0.5 DARK GRAYISH BROWN (2.5Y 4/2) SILTY SAND / SANDY SILT, VERY FINE GRAINED; WELL ROUNDED; MOIST; WELL SORTED MINERALOGY: QUARTZ AND BIOTITE	SM			
2.0											2.0 LIGHT OYVE BROWN (2.5Y 5/4) VERY FINE GRAINED SAND, WELL ROUNDED; SLIGHTLY MOIST; VERY WELL SORTED. MINERALOGY: CLEAR, FROSTED, MILKY AND SMOKEY QUARTZ; BIOTITE; PYRITE; POTASSIUM FELDSPAR; ULTRA MAFICS	SW			
5.0											5.0 VERY DARK BROWN (10YR 2/2) SILTY, VERY FINE TO MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR; MOIST; MODERATELY WELL SORTED. MINERALOGY: QUARTZ; BIOTITE; PYRITE; ULTRA MAFICS	SM			
15.0											15.0 DARK GRAYISH BROWN (10YR 4/2) SILTY SAND / SANDY SILT, VERY FINE GRAINED; WELL ROUNDED, VERY MOIST TO WET; VERY WELL SORTED MINERALOGY: QUARTZ; BIOTITE; PYRITE; ULTRA MAFICS	SM			
25.0											25.0 GRAYISH BROWN (10YR 5/2) SILT, FIRM; WEAKLY CEMENTED; SLOW DILATANCY	ML			
35.0											35.0 LIGHT YELLOWISH BROWN (2.5Y 6/3) VERY FINE TO MEDIUM GRAINED SAND, WELL ROUNDED TO SUB-ANGULAR; SLIGHTLY MOIST; MODERATELY SORTED MINERALOGY: CLEAR, MILKY, FROSTED AND SMOKEY QUARTZ; PYRITE; BIOTITE; ULTRA MAFICS, POTASSIUM FELDSPAR; GREEN AND RED CHERT	SW			

Signature (logging geologist): \_\_\_\_\_

Date: 3/12/15

Signature (reviewer): \_\_\_\_\_

Date: \_\_\_\_\_





# Soils Log Form

Boring  
No.

JW-SB/SG 14

Project: Jervis Webb

Project No.: J163007200

Page 1 of 1

Client: U.S. EPA

Start Date: 3/13/15

Logged By: P. J. Phillips

Location: South Gate, Ca.

Completion Date: 3/13/15

Reviewed By:

Depth	Sampled Interval		OVA	Grain Size & Distribution (to nearest 5 %)						max size	Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.	
	Driven	Blows / Recovery		% fines	% sand			% gravel					Annulus	Casing
					f	m	c	f	c					
	x													
0.5										4 INCH THICK CONCRETE FLOOR				
										0.5 BROWN (7.5YR 4/2) VERY COARSE GRAINED SAND. ANGULAR; MOIST; POORLY SORTED	SW			
										MINERALOGY: QUARTZ; POTASSIUM FELDSPAR; BIOTITE; PYRITE				
2.0										2.0 DARK GRAYISH BROWN (2.5Y 4/2) VERY FINE TO MEDIUM GRAINED SAND, ROUND TO SUB-ANGULAR; SLIGHTLY MOIST; MODERATELY SORTED	SW			
										MINERALOGY: CLEAR, MILKY, FROSTED QUARTZ; BIOTITE; PYRITE; CHERT				
5.0										5.0 VERY DARK GRAYISH BROWN (10YR 3/2) SILTY VERY FINE GRAINED SAND, ROUND TO SUB-ROUND; MOIST; MODERATELY-WELL SORTED	SM			
										MINERALOGY: CLEAR, MILKY, SMOKEY QUARTZ; BIOTITE; PYRITE; ULTRAMAFIC				
15.0										15.0 DARK GRAY (2.5Y 4/1) SILTY SAND/SANDY SILT. VERY FINE GRAINED; ROUND TO SUB-ROUND; MOIST	SM			
25.0										25.0 SAME AS ABOVE WITH INCREASE IN VERY FINE GRAINED SAND, VERY MOIST TO WET				
35.0										35.0 GRAYISH BROWN (2.5Y 5/2) TO LIGHT OLIVE BROWN (2.5Y 5/3) FINE TO MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR; MOIST; MODERATELY-WELL SORTED	SW			
										MINERALOGY: CLEAR, MILKY, FROSTED, SMOKEY QUARTZ; BIOTITE; PYRITE; POTASSIUM FELDSPAR; RED AND GREEN CHERT				

Signature (logging geologist):

Date: 3/13/15

Signature (reviewer):

Date:



# Soils Log Form

Boring No.	JW-SB/SG 15
------------	-------------

Project: Jervis Webb

Project No.: J163007200

Page 1 of 1

Client: U.S. EPA

Start Date: 3/13/15

Logged By: P. J. Phillips

Location: South Gate, Ca.

Completion Date: 3/13/15

Reviewed By: \_\_\_\_\_

Depth	Sampled Interval		OVA	Grain Size & Distribution (to nearest 5 %)						max size	Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.		
	Driven	Blows /		Recovery	% fines	% sand			% gravel				Annulus	Casing	
						f	m	c	f						c
	x										4 INCH THICK CONCRETE FLOOR				
0.5											0.5 DARK GRAYISH BROWN (10YR 4/2) FINE TO MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR; MOIST TO VERY MOIST; MODERATELY SORTED	SW			
											MINERALOGY: CLEAR AND MILKY QUARTZ; BIOTITE; PYRITE; CHERT; ULTRA MAFICS				
2.0											2.0 SAME AS ABOVE WITH INCREASE IN FINE TO VERY FINE GRAINED SAND AND SILT				
5.0											5.0 VERY DARK GRAYISH BROWN (10YR 3/2) SILTY VERY FINE TO MEDIUM GRAINED SAND. ROUND TO SUB-ROUND; MOIST	SW			
											MINERALOGY: QUARTZ; BIOTITE; PYRITE; ULTRA MAFICS				
15.0											15.0 DARK GRAY (2.5Y 4/1) SILTY SAND/SAND/SILT. VERY FINE GRAINED. MOIST TO VERY MOIST	SM			
											MINERALOGY: CLEAR AND MILKY QUARTZ; BIOTITE; PYRITE; MAFICS				
25.0											25.0 SAME AS ABOVE WITH INCREASE IN VERY FINE TO FINE GRAINED SAND. ROUND; MOIST TO VERY MOIST; MODERATELY-WELL SORTED				
35.0											35.0 GRAYISH BROWN (2.5Y 5/2) FINE TO MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR; MOIST; MODERATELY-WELL SORTED	SM			
											MINERALOGY: CLEAR, MILKY, FROSTED, SMOKEY QUARTZ; BIOTITE; PYRITE; MAFICS; RED AND GREEN CHERT; POTASSIUM FELDSPAR				

Signature (logging geologist):

*P. J. Phillips*

Date: 3/13/15

Signature (reviewer):

Date: \_\_\_\_\_



## Soils Log Form

Boring  
No.

JW-SB/SG 16

Project: Jervis Webb

Project No.: J163007200

Page 1 of 1

**Client:** U.S. EPA

Start Date: 3/10/15

Logged By: P. J. Phillips

**Location:** South Gate, Ca.

Completion Date: 3/10/15

Reviewed By:

Depth	Sampled Interval			OVA PID FID	Grain Size & Distribution (to nearest 5%)							Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.			
					% fines	% sand			% gravel					max size	Annulus	Casing	
	f	m	c			f	c										
	Driven	Blows /	Recovery														
0.5													0.5 DARK BROWN (10YR 3/3) FINE TO MEDIUM GRAINED SAND. WELL ROUNDED, SLIGHTLY MOIST; MODERATELY - WELL SORTED, MINERALOGY: CLEAR, SMOKEY, MILKY QUARTZ; CHERT WITH IRON STAINING; BIOTITE; PYRITE	SW			
2.0													2.0 SAME AS ABOVE				
5.0													5.0 SAME AS ABOVE				
15.0													15.0 BROWN (10YR 4/3) MEDIUM GRAINED SAND. WELL ROUNDED TO SUB-ANGULAR; MOIST; MODERATELY SORTED. MINERALOGY: CLEAR, SMOKEY, MILKY QUARTZ; BIOTITE; PYRITE; POTASSIUM FELDSPAR, CHERT WITH IRON STAINING	SW			
25.0													25.0 DARK GRAYISH BROWN (2.5Y 4/2) SILTY SAND / SANDY SILT. VERY FINE GRAINED; WELL ROUNDED; VERY MOIST. VERY WELL SORTED. MINERALOGY: QUARTZ; POTASSIUM FELDSPAR; BIOTITE; CHERT; PYRITE	SP			
35.0													35.0 GRAYISH BROWN (2.5Y 5/2) VERY FINE TO MEDIUM GRAINED. WELL ROUNDED TO SUB-ANGULAR; MOIST TO VERY MOIST. MINERALOGY: CLEAR, FROSTED, MILKY, SMOKEY QUARTZ; BIOTITE; PYRITE; POTASSIUM FELDSPAR; GREEN AND RED CHERT	SW			

Signature (logging geologist):

Date: 3/10/15

Signature (reviewer):

Date:



# Soils Log Form

Boring No.	JW-SB/SG 17
------------	-------------

Project: Jervis WebbProject No.: J163007200Page 1 of 2Client: U.S. EPAStart Date: 3/10/15Logged By: P. J. PhillipsLocation: South Gate, Ca.Completion Date: 3/10/15

Reviewed By: \_\_\_\_\_

Depth	Sampled Interval		OVA PID FID	Grain Size & Distribution (to nearest 5 %)					Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.			
	Driven Blows /	Recovery		% fines	% sand			% gravel			max size	Annulus	Casing	
					f	m	c	f						c
	x													
0.5									0.5 DARK BROWN (10 YR 3/3) VERY FINE TO MEDIUM GRAINED SAND. SUB-ANGULAR TO ROUND; MOIST; MODERATELY-WELL SORTED. MINERALOGY: CLEAR AND MILKY QUARTZ; BIOTITE; PYRITE; CHERT, ULTRA MAFICS	SW				
2.0									2.0 SAME AS ABOVE; VERY SLIGHTLY MOIST; WELL SORTED					
5.0									5.0 VERY DARK GRAYISH BROWN (10 YR 3/2) VERY FINE TO MEDIUM GRAINED SAND, WELL ROUNDED TO SUB-ANGULAR; MOIST; MODERATELY SORTED MINERALOGY: CLEAR AND MILKY QUARTZ; BIOTITE; PYRITE; POTASSIUM FELDSPAR; CHERT	SW				
15.0									15.0 LIGHT OLIVE BROWN (2.5 5/3) SILTY VERY FINE TO MEDIUM GRAINED SAND. WELL ROUNDED TO SUB-ANGULAR; MODERATELY SORTED. MINERALOGY: CLEAR AND MILKY QUARTZ; GREEN AND RED CHERT; BIOTITE; PYRITE	SW				
25.0									25.0 VERY DARK GRAYISH BROWN (2.5 Y 3/2) VERY FINE TO MEDIUM GRAINED SAND, SUB-ANGULAR TO ROUND; MOIST; MODERATELY SORTED MINERALOGY: CLEAR, FROSTED, MILKY QUARTZ; BIOTITE; PYRITE; ULTRA MAFICS	SW				
35.0									35.0 DARK OLIVE GRAY (5 Y 3/2) SILTY SANDY SILT. VERY MOIST; FIRM; SLOW DILATANCY	SM				
45.0									45.0 DARK GRAYISH BROWN (10 YR 4/2) SILTY VERY FINE GRAINED SAND, ROUND TO WELL ROUNDED; VERY MOIST;	SM				

Signature (logging geologist): \_\_\_\_\_

Date: 3/10/15

Signature (reviewer): \_\_\_\_\_

Date: \_\_\_\_\_

## Soils Log Form

Boring  
No.

JW-SB/SG 17

Project: Jervis Webb

Project No.: J163007200Page 2 of 2

Client: U.S. EPA

Start Date: 3/10/15

Logged By: P. J. Phillips

**Location:** South Gate, Ca.

Completion Date: 3/10/15

Reviewed By: \_\_\_\_\_

[illegible]

Signature (logging geologist):

Date: 3/10/15

Signature (reviewer):

Date: \_\_\_\_\_





# Soils Log Form

Boring No.	JW-SB/SG 18
------------	-------------

Project: Jervis Webb

Project No.: J163007200

Page 1 of 2

Client: U.S. EPA

Start Date: 3/11/15

Logged By: P. J. Phillips

Location: South Gate, Ca.

Completion Date: 3/11/15

Reviewed By: \_\_\_\_\_

Depth	Sampled Interval			OVA  PID FID	Grain Size & Distribution (to nearest 5 %)							Remarks  Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.
	Driven	Blows /	Recovery		% fines	% sand			% gravel		max size			
						f	m	c	f	c				
	x													
0.5											0.5 DARK BROWN (7.5 YR 3/2) VERY FINE TO MEDIUM GRAINED SAND. MODERATELY WELL ROUNDED TO SUB-ANGULAR; SLIGHTLY MOIST. MODERATELY SORTED. VERY MINOR AMOUNTS OF VERY COARSE GRAINED SAND TO GRAVEL GRAVEL SIZED ROCK FRAGMENTS. MINERALOGY: CLEAR AND MILKY QUARTZ; BIOTITE; PYRITE	SP		
2.0											2.0 OLIVE BROWN (2.5 Y 4/3) FINE TO MEDIUM GRAINED SAND. WELL ROUNDED TO SUB-ANGULAR; MODERATELY SORTED MINERALOGY: CLEAR, MILKY, FROSTED AND SMOKEY QUARTZ. BIOTITE, PYRITE; POTASSIUM FELDSPAR; GREEN AND RED CHERT; ULTRA MAFICS	SM		
5.0											5.0 VERY DARK BROWN (10 YR 2/2) SILTY VERY FINE TO MEDIUM GRAINED SAND, ROUND TO SUB-ANGULAR; MODERATELY WELL SORTED. MINERALOGY: CLEAR, SMOKEY AND MILKY QUARTZ; PYRITE; BIOTITE; CHERT	SP		
15.0											15.0 DARK YELLOWISH BROWN (10 YR 3/4) TO DARK BROWN (10 YR 3/3) SILTY SAND/ SANDY SILT. VERY FINE GRAINED; WELL ROUNDED; WELL SORTED. MINERALOGY: QUARTZ; BIOTITE; PYRITE	SM		
25.0											25.0 DARK GRAYISH BROWN (2.5 Y 4/2) SILTY SAND/ SANDY SILT MINERALOGY: QUARTZ; BIOTITE; PYRITE	SM		
35.0											35.0 GRAYISH BROWN (2.5 Y 5/2) FAIR TO MEDIUM GRAINED SAND. WELL ROUNDED TO SUB-ANGULAR; VERY MOIST; MODERATELY WELL SORTED. MINERALOGY: CLEAR, MILKY, FROSTED			

Signature (logging geologist):

Date: 3/11/15

Signature (reviewer):

Date: \_\_\_\_\_



JW-SB/SG 18

Page 2 of 2

Logged By: P. J. Phillips

Reviewed By:

Date: \_\_\_\_\_



# Soils Log Form

Boring No.	JW-SB/SG 19
------------	-------------

Project: Jervis Webb

Project No.: J163007200

Page 1 of 1

Client: U.S. EPA

Start Date: 3/9/15

Logged By: P. J. Phillips

Location: South Gate, Ca.

Completion Date: 3/9/15

Reviewed By: \_\_\_\_\_

Depth	Sampled Interval			OVA	Grain Size & Distribution (to nearest 5 %)					max size	Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.		
	Driven	Blows /	Recovery		% fines	% sand			% gravel				Annulus	Casing	
						f	m	c	f						c
	x														
0.5											0.5 DARK GRAYISH BROWN (10YR 4/2) SILTY SAND. FINE TO MEDIUM GRAINED; SUB-ANGULAR TO ROUND; MOIST; MODERATELY WELL SORTED MINERALOGY: MILKY AND CLEAR QUARTZ; BIOTITE; PYRITE; CHERT; ULTRA MAFICS	SM			
2.0											2.0 SAME AS ABOVE WITH IRON STAINING OF CHERT				
5.0											5.0 BROWN (10YR 5/3) SLIGHTLY SILTY SAND. FINE TO MEDIUM GRAINED; SLIGHTLY MOIST; VERY WELL SORTED. MINERALOGY: CLEAR, MILKY AND SMOKEY QUARTZ; BIOTITE; PYRITE; IRON STAINED RED AND GREEN CHERT; ULTRA MAFICS	SP			
15.0											15.0 VERY DARK GRAYISH BROWN (2.5Y 3/2) CLAYEY SILTY VERY FINE TO MEDIUM GRAINED SAND. WELL TO SUB-ROUND, VERY MOIST; MODERATELY SORTED. MINERALOGY: CLEAR AND MILKY QUARTZ; MAFICS; BIOTITE; PYRITE	SC/SM			
25.0											25.0 SAME AS ABOVE WITH SLIGHT INCREASE IN FINE TO MEDIUM GRAINED SAND				
35.0											35.0 LIGHT YELLOWISH BROWN (2.5Y 6/3) FINE TO MEDIUM GRAINED SAND, WELL ROUNDED TO SUB-ANGULAR; SLIGHTLY MOIST; MODERATELY SORTED MINERALOGY: CLEAR, MILKY AND SMOKEY QUARTZ; BIOTITE; PYRITE; GREEN AND RED CHERT; ULTRA MAFICS				

Signature (logging geologist): P. J. Phillips

Date: 3/9/15

Signature (reviewer): \_\_\_\_\_

Date: \_\_\_\_\_





# Soils Log Form

Boring No.	JW-SB/SG 20
------------	-------------

Project: Jervis WebbProject No.: J163007200Page 1 of 1Client: U.S. EPAStart Date: 3/18/15Logged By: P. J. PhillipsLocation: South Gate, Ca.Completion Date: 3/18/15

Reviewed By: \_\_\_\_\_

Depth	Sampled Interval		OVA PID FID	Grain Size & Distribution (to nearest 5 %)					Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.		
	Driven	Blows / Recovery		% fines	% sand			% gravel			Annulus	Casing	
					f	m	c	f					c
	x												
0.5									4 INCH THICK CONCRETE FLOOR				
									0.5 DARK BROWN (10 YR 3/3) SILTY VERY FINE TO MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR; VERY SLIGHTLY MOIST; MODERATELY SORTED.	SW			
									MINERALOGY: CLEAR AND MILKY QUARTZ; POTASSIUM FELDSPAR; BIOTITE; PYRITE				
2.0									2.0 GRAYISH BROWN (10 YR 5/2) MEDIUM GRAINED SAND. SUB-ROUND TO ANGULAR; VERY MOIST; VERY WELL SORTED	SW			
									MINERALOGY: CLEAR, MILKY, FROSTED QUARTZ; POTASSIUM FELDSPAR; RED AND GREEN CHERT; BIOTITE; PYRITE				
5.0									5.0 SAME AS ABOVE				
15.0									15.0 VERY DARK GRAYISH BROWN (2.5 Y 3/2) SILTY CLAY/CLAYEY SILT. VERY MOIST; FIRM; LOW PLASTICITY; SLOW DILATANCY	SL			
25.0									25.0 DARK GRAYISH BROWN (2.5 Y 4/2) VERY FINE TO MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR; VERY SLIGHTLY MOIST; MODERATELY SORTED.	SM			
									MINERALOGY: CLEAR AND MILKY QUARTZ; BIOTITE; PYRITE; ULTRA MAFICS				
35.0									35.0 LIGHT BROWNISH GRAY (2.5 Y 6/2) VERY FINE TO MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR; SLIGHTLY MOIST; MODERATELY-WELL SORTED.	SM/SW			
									MINERALOGY: CLEAR FROSTED, MILKY, SMOKY QUARTZ; BIOTITE; PYRITE; RED AND GREEN CHERT; POTASSIUM FELDSPAR				

Signature (logging geologist):

Date: 3/18/15

Signature (reviewer):

Date: \_\_\_\_\_

## Soils Log Form

Boring  
No.

JW-SB/SGZ1

Project: Jervis Webb

Project No.: J163007200

Page 1 of 1

Client: U.S. EPA

Start Date: 3/17/15

Logged By: P. J. Phillips

**Location:** South Gate, Ca.

Completion Date: 3/17/15

Reviewed By: \_\_\_\_\_

Depth	Sampled Interval			OVA _____ PID FID	Grain Size & Distribution (to nearest 5 %)						max size	Remarks  Visual/Manual description of soil (ASTM D 2488 / USBR 5005)  Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.	
					% fines	% sand			% gravel						
		f	m			c	f	c							
x											3 INCH THICK CONCRETE FLOOR				
0.5											0.5 DARK BROWN (10YR 3/3) SILTY, VERY FINE TO MEDIUM GRAINED SAND, ROUND TO SUB-ANGULAR; SLIGHTLY MOIST; MODERATELY SORTED; MINERALOGY: CLEAR, FROSTED AND MILKY QUARTZ, BIOTITE; PYRITE	SM			
2.0											2.0 SAME AS ABOVE WITH INCREASE IN MOISTURE				
5.0											5.0 SAME AS ABOVE WITH GRADATIONAL COLOR CHANGE TO VERY DARK BROWN (10YR 3/1)				
15.0											15.0 VERY DARK BROWN (10YR 3/2) SILTY CLAY / CLAYEY SILT, VERY MOIST TO WET; FIRM; SLOW DILATANCY	SC			
25.0											25.0 DARK GRAYISH BROWN (2.5Y 4/2) SANDY SILT/SILTY SAND, VERY FINE GRAINED; ROUND; MOIST; VERY WELL SORTED. MINERALOGY: CLEAR AND MILKY QUARTZ; BIOTITE; PYRITE; CHERT	SM			
35.0											35.0 LIGHT BROWNISH GRAY (2.5Y 6/2) FINE TO COARSE GRAINED SAND. ROUND TO SUB-ANGULAR; MOIST; POORLY SORTED. MINERALOGY: CLEAR, MILKY, FROSTED SMOKEY QUARTZ; POTASSIUM FELDSPAR, CHERT; BIOTITE; PYRITE	SP			

Signature (logging geologist):

Date: 3/17/15

Signature (reviewer):

Date: \_\_\_\_\_





# Soils Log Form

Boring  
No.

JW-SB/SG 22

Project: Jervis Webb

Project No.: J163007200

Page 1 of 2

Client: U.S. EPA

Start Date: 3/18/15

Logged By: P. J. Phillips

Location: South Gate, Ca.

Completion Date: 3/18/15

Reviewed By:

Depth	Sampled Interval			OVA PID FID	Grain Size & Distribution (to nearest 5 %)						Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.			
	Driven	Blows /	Recovery		% fines	% sand			% gravel				max size	Annulus	Casing	
						f	m	c	f	c						
	x															
0.5																
2.0																
5.0																
15.0																
25.0																
35.0																

Signature (logging geologist):

Date: 3/18/15

Signature (reviewer):

Date:

# Soils Log Form

Boring  
No.

JW-SB/SG ZZ

Project: Jervis Webb

Project No.: J163007200

Page 2 of 2

**Client:** U.S. EPA

Start Date: 3/12/15

Logged By: P. J. Phillips

Location: South Gate, Ca.

Completion Date: 3/19/15

Reviewed By:

[illegible]

Signature (logging geologist): 

Date: 3/18/15

Signature (reviewer): \_\_\_\_\_

Date: \_\_\_\_\_



# Soils Log Form

Boring No.	JW-SB/SG Z 3
------------	--------------

Project: Jervis Webb

Project No.: J163007200

Page 1 of 1

Client: U.S. EPA

Start Date: 3/19/15

Logged By: P. J. Phillips

Location: South Gate, Ca.

Completion Date: 3/19/15

Reviewed By: \_\_\_\_\_

Depth	Sampled Interval			OVA PID FID	Grain Size & Distribution (to nearest 5 %)						Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.			
	Driven	Blows /	Recovery		% fines	% sand			% gravel				max size	Annular	Casing	
						f	m	c	f	c						
	x															
0.5												4 INCH THICK CONCRETE FLOOR				
												0.5 DARK GRAYISH BROWN (Z.5Y 3/2) VERY FINE TO MEDIUM GRAINED SAND. SUB-ROUND TO SUB-ANGULAR; MOIST; MODERATELY-WELL SORTED.	SM			
												MINERALOGY: CLEAR AND MILKY QUARTZ; BIOTITE; CHERT; BIOTITE; POTASSIUM FELDSPAR				
2.0												2.0 SAME AS ABOVE				
5.0												5.0 VERY DARK GRAYISH BROWN (10YR 3/2) SILTY VERY FINE TO COARSE GRAINED SAND. ROUND TO SUB-ANGULAR; VERY MOIST; MODERATELY-WELL SORTED.	SM			
												MINERALOGY: CHERT; QUARTZ; BIOTITE; PYRITE				
15.0												15.0 DARK GRAYISH BROWN (Z.5Y 3/1) SILTY VERY FINE TO FINE GRAINED SAND. ROUND; VERY MOIST; VERY WELL SORTED.	SM			
												MINERALOGY: QUARTZ; CHERT; BIOTITE; POTASSIUM FELDSPAR; PYRITE				
25.0												25.0 VERY DARK GRAY (Z.5Y 3/1) SILTY SAND/ SANDY SILT. ROUND; VERY MOIST; MODERATELY-WELL SORTED.	SM			
												MINERALOGY: QUARTZ; BIOTITE; PYRITE; ULTRA MAFICS				
35.0												35.0 GRAYISH BROWN (Z.5Y 5/2) FINE TO MEDIUM GRAINED SAND, ROUND TO SUB-ANGULAR; SLIGHTLY MOIST; MODERATELY-WELL SORTED.	SM			
												MINERALOGY: CLEAR, SMOKEY AND MILKY QUARTZ; CHERT; POTASSIUM FELDSPAR; BIOTITE; PYRITE				

Signature (logging geologist): P. J. Phillips

Date: 3/19/15

Signature (reviewer): \_\_\_\_\_

Date: \_\_\_\_\_





# Soils Log Form

Boring  
No.

JW-SB/SG Z4

Project: Jervis Webb

Project No.: J163007200

Page 1 of 1

Client: U.S. EPA

Start Date: 3/17/15

Logged By: P. J. Phillips

Location: South Gate, Ca.

Completion Date: 3/17/15

Reviewed By:

Depth	Sampled Interval			OVA PID FID	Grain Size & Distribution (to nearest 5 %)						max size	Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.		
	Driven	Blows /	Recovery		% fines	% sand			% gravel					Annulus	Casing	
						f	m	c	f	c						
	x															
0.5																
2.0																
5.0																
15.0																
25.0																
35.0																

Signature (logging geologist):

Date: 3/17/15

Signature (reviewer):

Date:

# Soils Log Form

Boring  
No.

JW-SB/SG 25

Project: Jervis Webb

Project No.: J163007200

Page 1 of 1

Client: U.S. EPA

Start Date: 3/16/15

Logged By: P. J. Phillips

**Location:** South Gate, Ca.

Completion Date: 3/16/15

Reviewed By:

Depth	Sampled Interval			OVA	Grain Size & Distribution (to nearest 5%)							Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.
	Driven	Blows /	Recovery		% fines	% sand			% gravel		max size			
						f	m	c	f	c				
	x											4 INCH THICK CONCRETE FLOOR		
0.5												0.5 DARK BROWN (10YR 3/3) SILTY VERY FINE TO MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR; MOIST; MODERATELY WELL SORTED. MINERALOGY: CLEAR AND MILKY QUARTZ; BIOTITE; PYRITE; ULTRA MAFICS	SW	
2.0												2.0 SAME AS ABOVE		
5.0												5.0 SAME AS ABOVE WITH GRADATIONAL COLOR CHANGE TO VERY DARK GRAYISH BROWN (10YR 3/2) AND AN INCREASE IN MOISTURE		
15.0												15.0 GRAYISH BROWN (2.5Y 5/2) SILTY VERY FINE TO FINE GRAINED SAND. ROUND TO SUB-ANGULAR; SLIGHTLY MOIST; MODERATELY WELL SORTED; MINERALOGY: CLEAR AND MILKY QUARTZ; POTASSIUM FELDSPAR; CHERT; PYRITE; BIOTITE	SM	
25.0												25.0 SAME AS ABOVE WITH GRADATIONAL COLOR CHANGE TO DARK GRAYISH BROWN (2.5Y 4/2) AND INCREASE IN MOISTURE		
35.0												35.0 LIGHT BROWNISH GRAY (2.5Y 6/2) MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR; VERY SLIGHTLY MOIST; VERY WELL SORTED. MINERALOGY: CLEAR, MILKY, FROSTED AND SMOKEY QUARTZ; POTASSIUM FELDSPAR; RED AND GREEN CHERT; BIOTITE; PYRITE; ULTRA MAFICS	SW	

Signature (logging geologist):

Date: 3/16/15

Signature (reviewer):

Date: \_\_\_\_\_





# Soils Log Form

Boring No.	JW-SB/SG 26
------------	-------------

Project: Jervis Webb

Project No.: J163007200

Page 1 of 1

Client: U.S. EPA

Start Date: 3/16/15

Logged By: P. J. Phillips

Location: South Gate, Ca.

Completion Date: 3/16/15

Reviewed By: \_\_\_\_\_

Depth	Sampled Interval			OVA PID FID	Grain Size & Distribution (to nearest 5 %)						max size	Remarks  Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.		
	Driven	Blows /	Recovery		% fines	% sand			% gravel					Annulus	Casing	
						f	m	c	f	c						
	x											4 INCH THICK CONCRETE FLOOR				
0.5												0.5 DARK GRAYISH BROWN (10YR 4/2) VERY FINE TO COARSE GRAINED SAND. ANGULAR TO ROUND; MOIST; POORLY SORTED. MINERALOGY: CLEAR AND MILKY QUARTZ; PIRITE; BIOTITE; CHERT; ULTRA MAFICS	SM			
2.0												2.0 SAME AS ABOVE				
5.0												5.0 VERY DARK GRAYISH BROWN (10YR 3/2) SILTY VERY FINE TO MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR, MOIST; MODERATELY SORTED. MINERALOGY: CLEAR, MILKY, FROSTED, AND SMOKEY QUARTZ; BIOTITE; CHERT; POTASSIUM FELDSPAR	SM			
15.0												15.0 GRAYISH BROWN (2.5Y 5/2) SILTY VERY FINE TO FINE GRAINED SAND. ROUND TO SUB-ROUND; VERY SLIGHTLY MOIST; MODERATELY-WELL SORTED. MINERALOGY: CLEAR AND MILKY QUARTZ; CHERT; POTASSIUM FELDSPAR; BIOTITE; PIRITE	SM			
25.0												25.0 SAME AS ABOVE WITH GRADATIONAL COLOR CHANGE TO DARK GRAYISH BROWN (2.5Y 4/2) AND INCREASE IN MOISTURE				
35.0												35.0 LIGHT BROWNISH GRAY (2.5Y 6/2) MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR; VERY SLIGHTLY MOIST; VERY WELL SORTED. MINERALOGY: CLEAR, MILKY, FROSTED, AND SMOKEY QUARTZ; POTASSIUM FELDSPAR; RED AND GREEN CHERT; BIOTITE; PIRITE; ULTRA MAFICS	SM			

Signature (logging geologist):

Date: 3/16/15

Signature (reviewer):

Date: \_\_\_\_\_



## Soils Log Form

Boring  
No.

JW-SB/SGZ7

Project: Jervis Webb

Project No.: J163007200

Page 1 of 1

Client: U.S. EPA

Start Date: 3/10/15

Logged By: P. J. Phillips

**Location:** South Gate, Ca.

Completion Date: 3/10/15

Reviewed By:

Depth	Sampled Interval			O.V.A. _____ PID _____ FID	Grain Size & Distribution (to nearest 5%)						max size	Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well		
					Driven	Blows /	Recovery	% fines	% sand					% gravel		
	f	m	c						f	c						
0.5	x											0.5 DARK OLIVE BROWN (10YR 4/2) SILTY FINE SM TO MEDIUM GRAINED SAND. WELL ROUNDED TO SUB-ANGULAR; VERY MOIST; MODERATELY WELL SORTED. MINERALOGY: CLEAR, FROSTED, MILKY QUARTZ, BIOTITE, PYRITE, CHERT				
2.0												2.0 SAME AS ABOVE				
5.0												5.0 SAME AS ABOVE WITH INCREASE IN SILTY SAND AND MOISTURE				
15.0												15.0 SAME AS ABOVE WITH CONTINUED INCREASE IN MOISTURE				
25.0												20.0 DARK OLIVE BROWN (2.5Y 3/3) SILTY SAND/SANDY SILT. VERY FINE GRAINED; WELL ROUNDED; MOIST; VERY WELL SORTED				
30.0												30.0 DARK OLIVE BROWN (2.5Y 3/3) SILTY CLAY/CLAYEY SILT. FIRM; MOIST; LOW PLASTISITY				

Signature (logging geologist): 

Date: 3/19/15

Signature (reviewer): \_\_\_\_\_

Date: \_\_\_\_\_



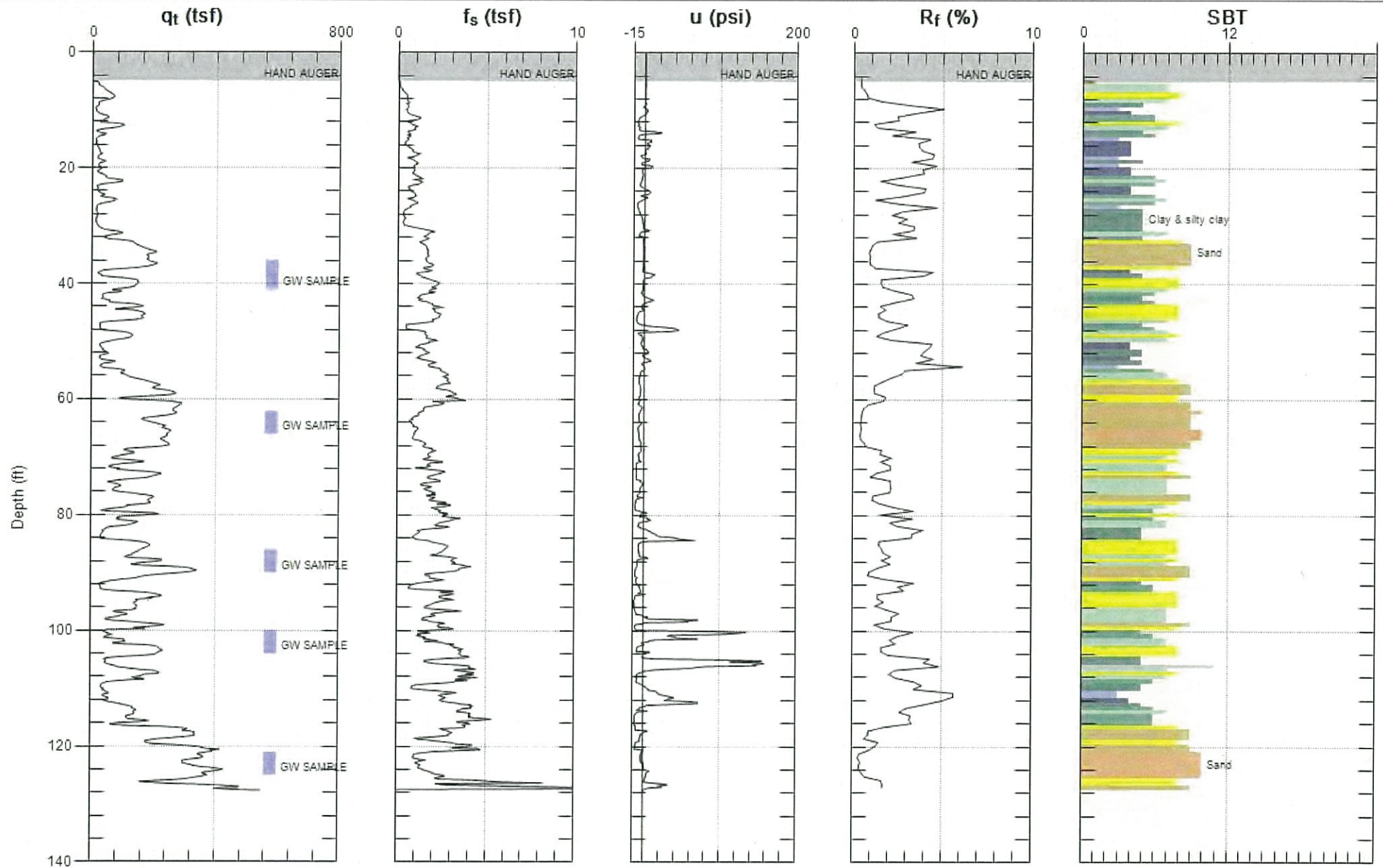
ITSI

Site: SOUTHERN AVE.

Sounding: JW-CPT-1

Engineer: D.GRUBER

Date: 3/27/2013 08:08



Max. Depth: 127.625 (ft)

Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)





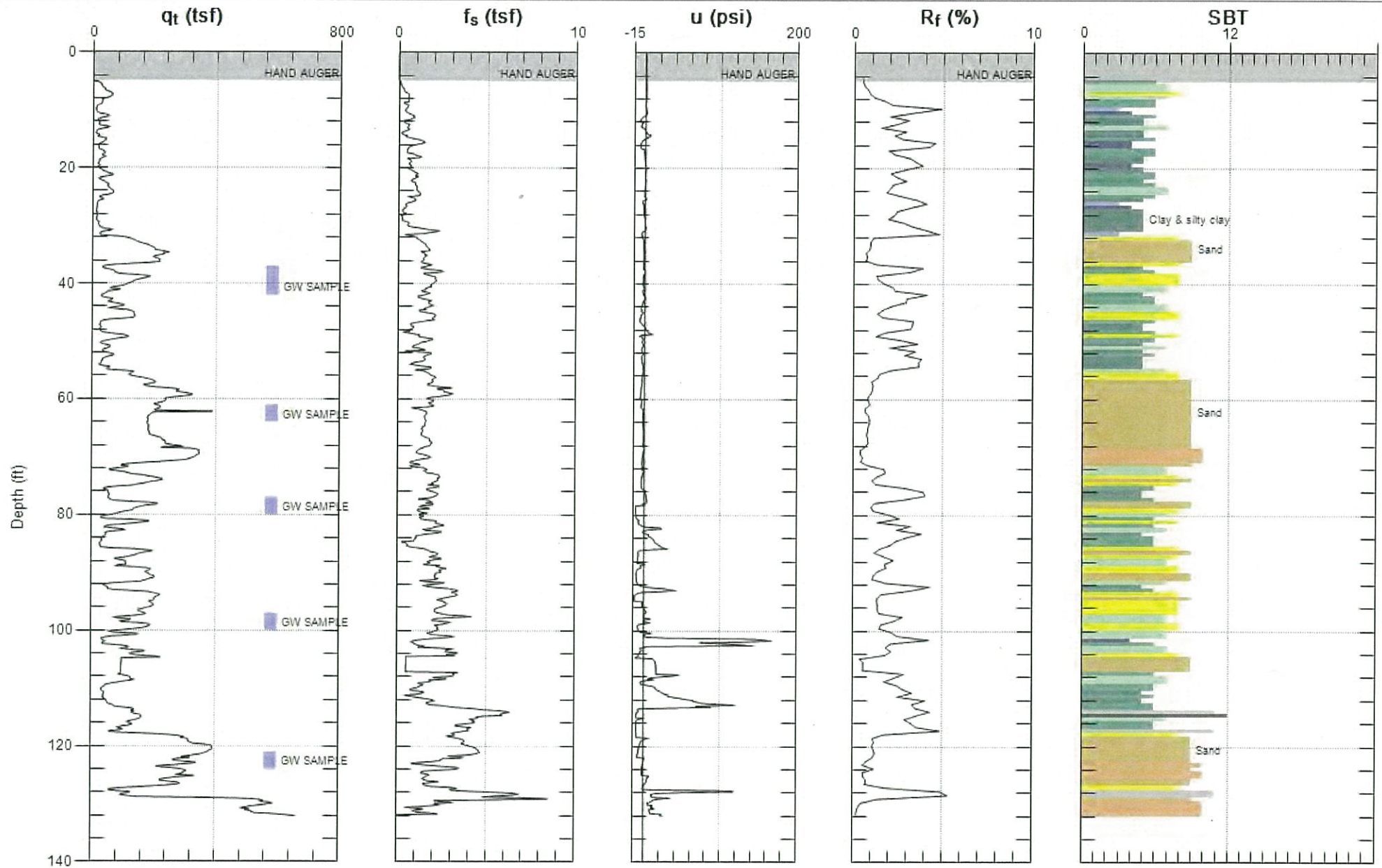
ITSI

Site: SOUTHERN AVE.

Sounding: JW-CPT-2

Engineer: D.GRUBER

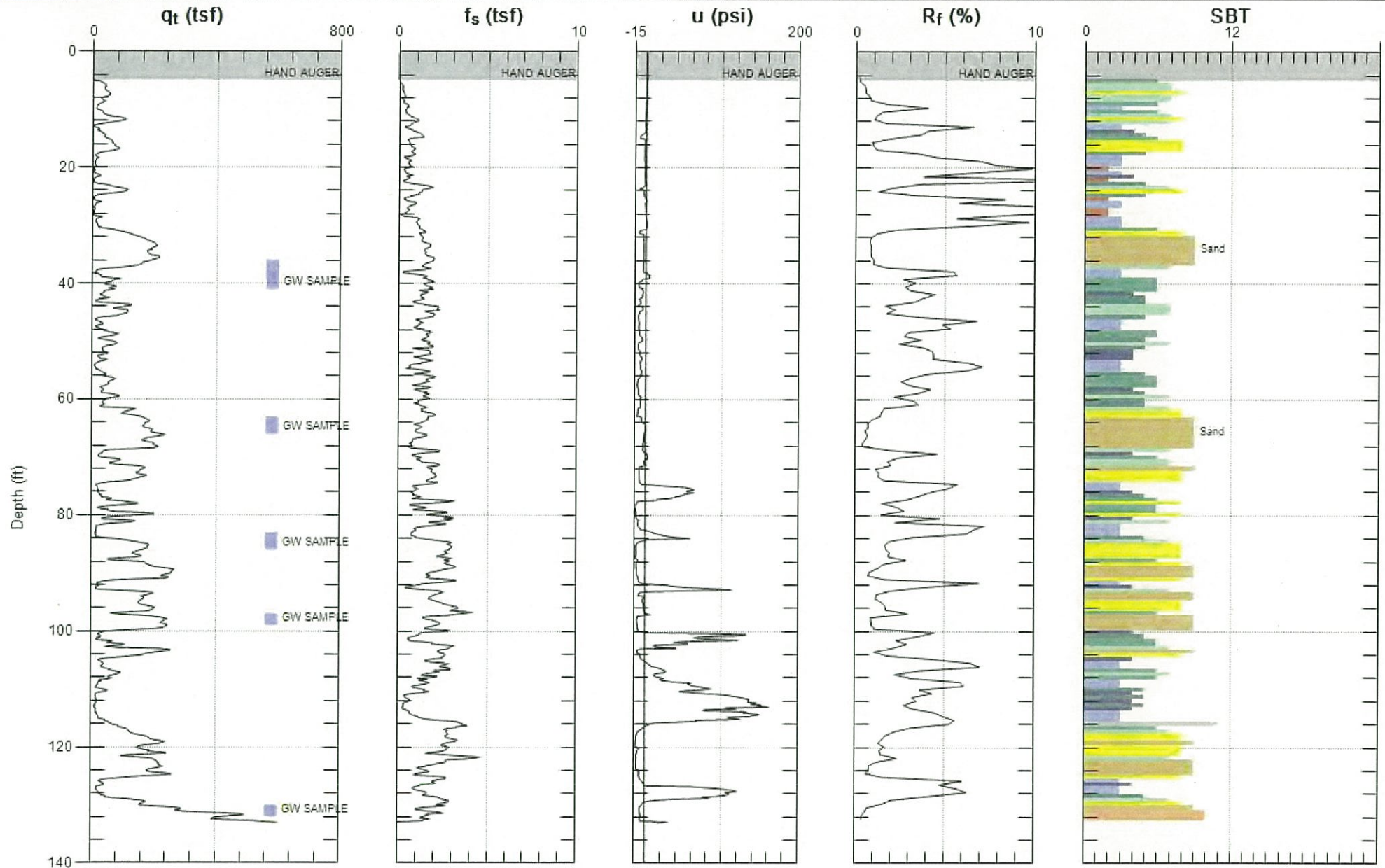
Date: 3/26/2013 07:33



Max. Depth: 132.054 (ft)

Avg. Interval: 0.656 (ft)

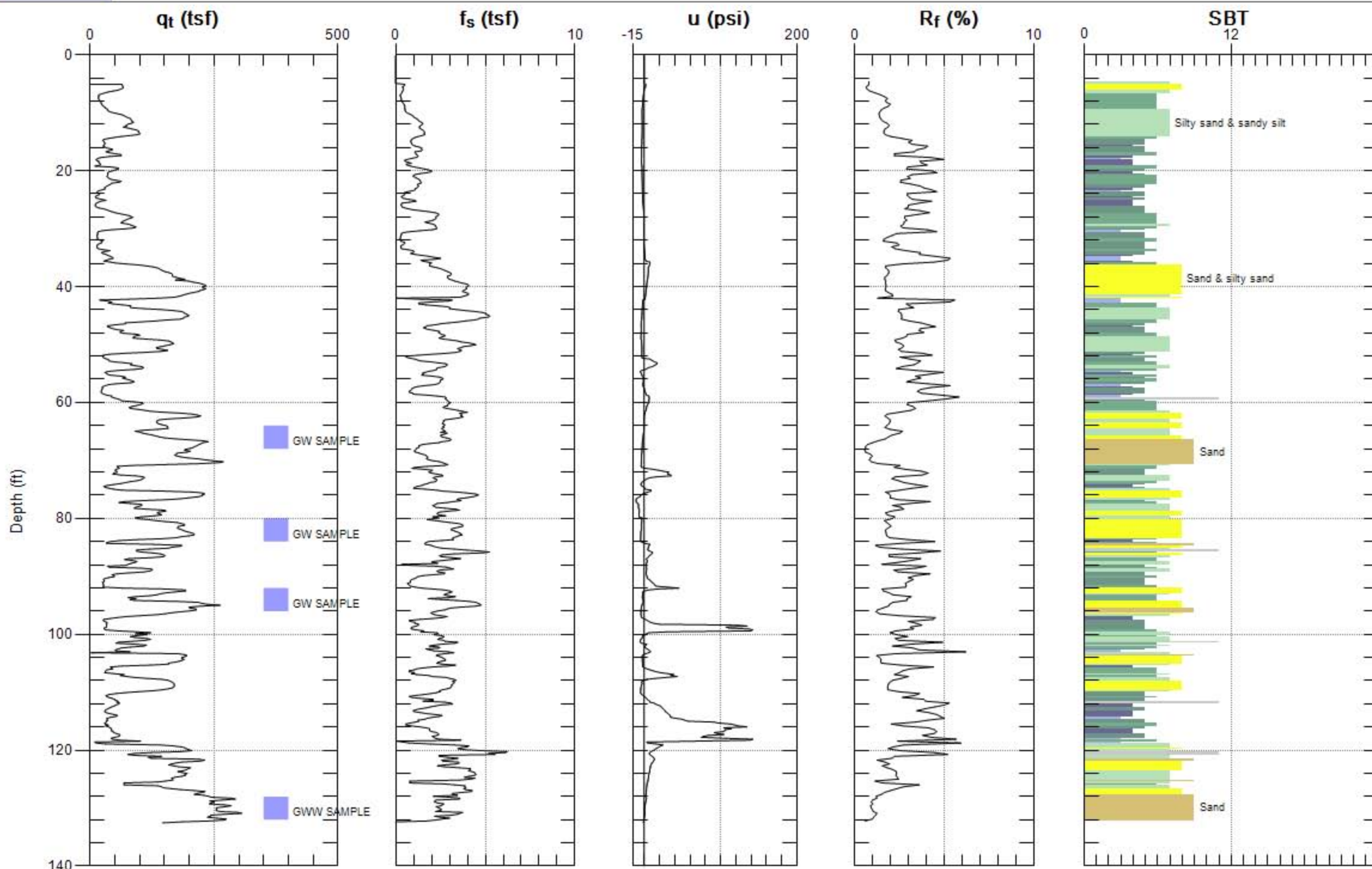
SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 133.038 (ft)  
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

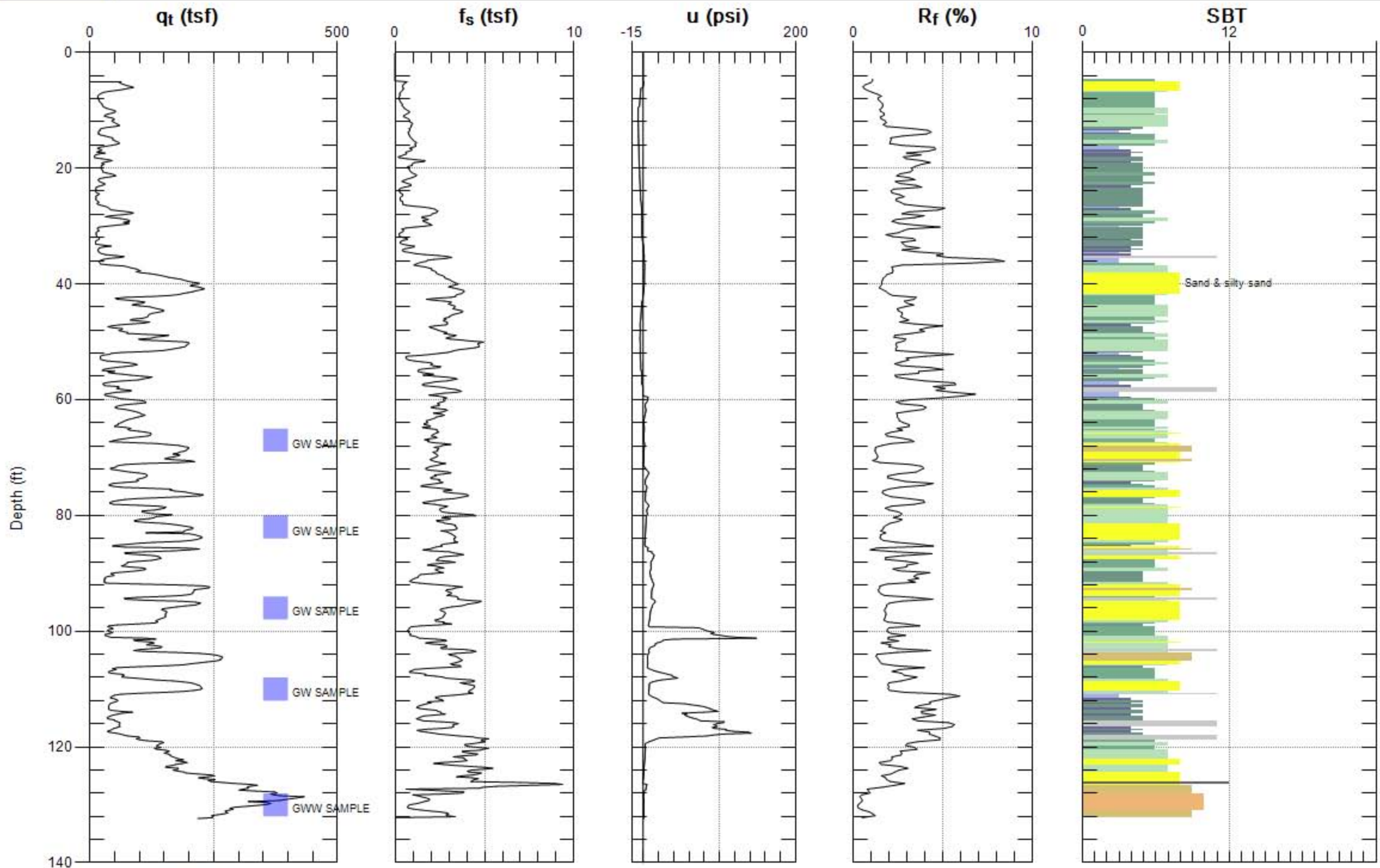




Max. Depth: 132.546 (ft)

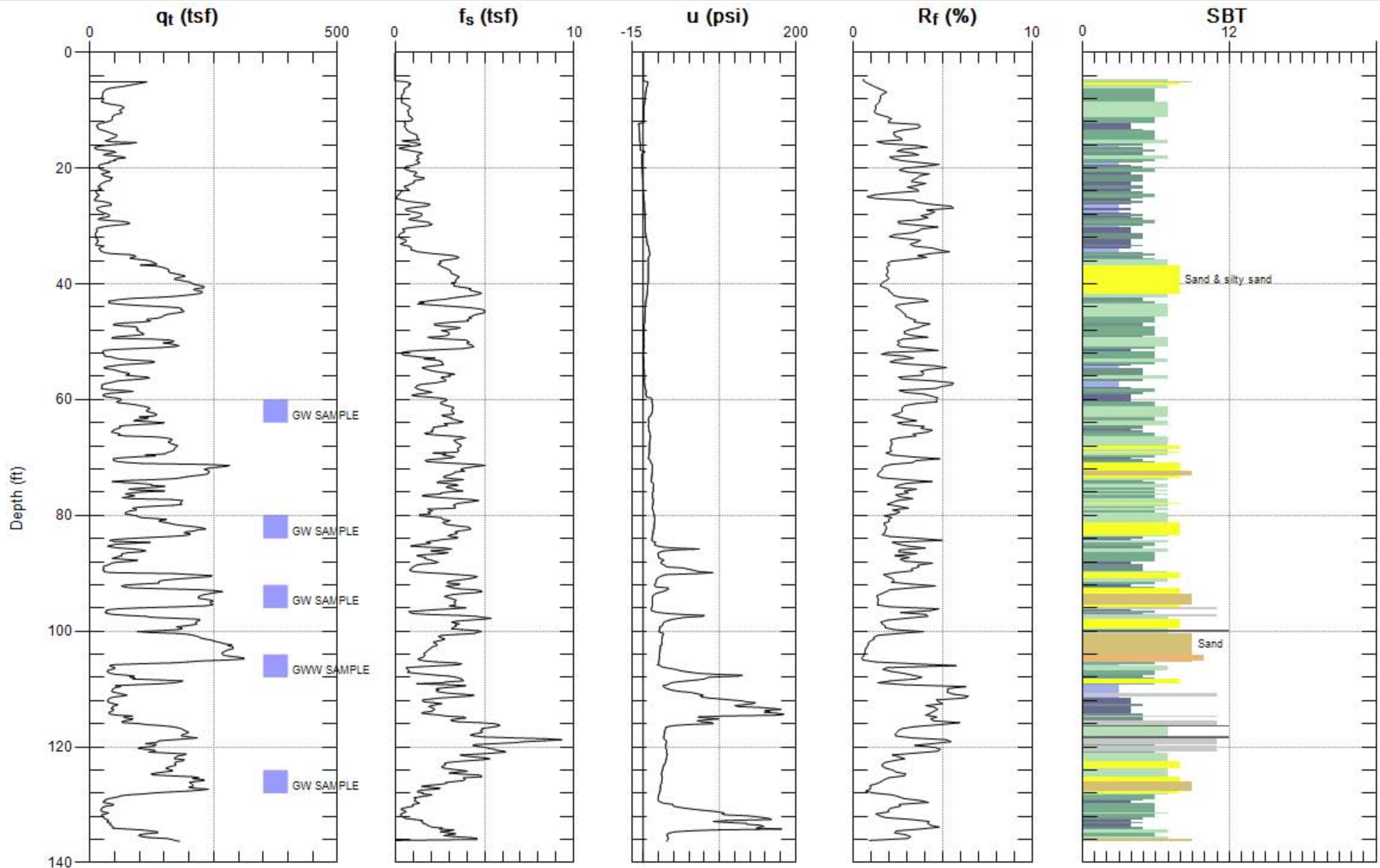
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 132.382 (ft)  
Avg. Interval: 0.328 (ft)

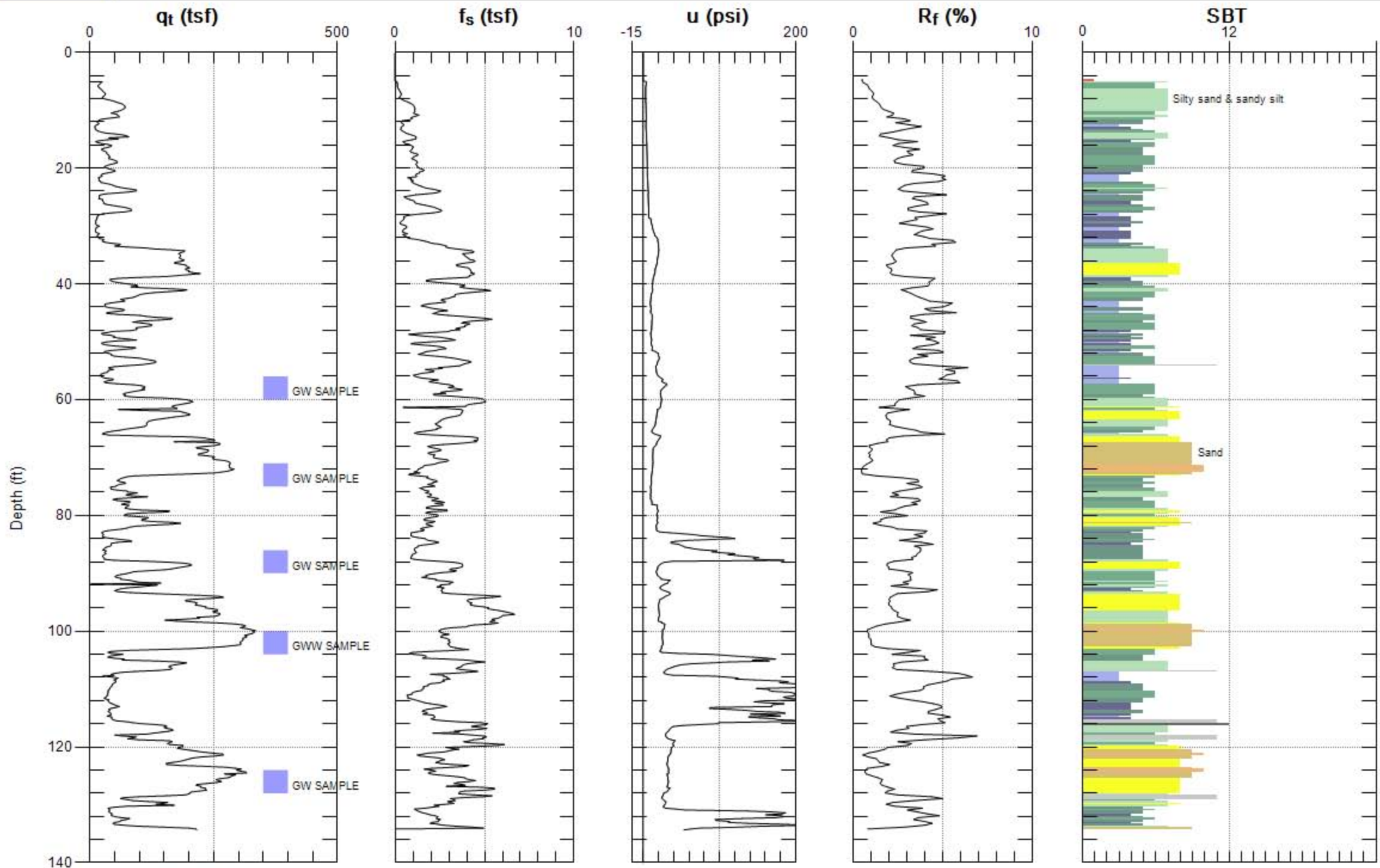
SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 136.319 (ft)  
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

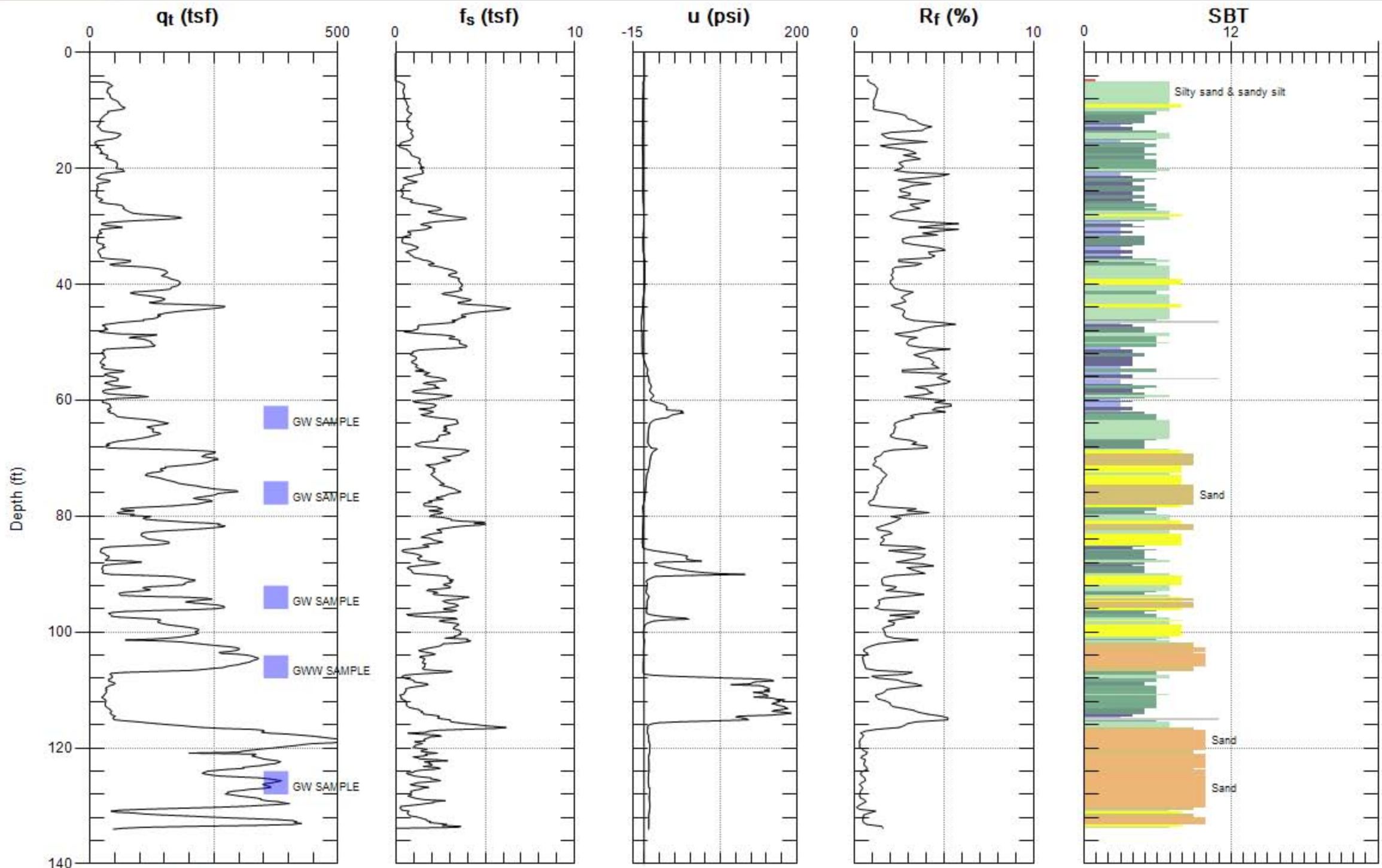




Max. Depth: 134.350 (ft)  
Avg. Interval: 0.328 (ft)

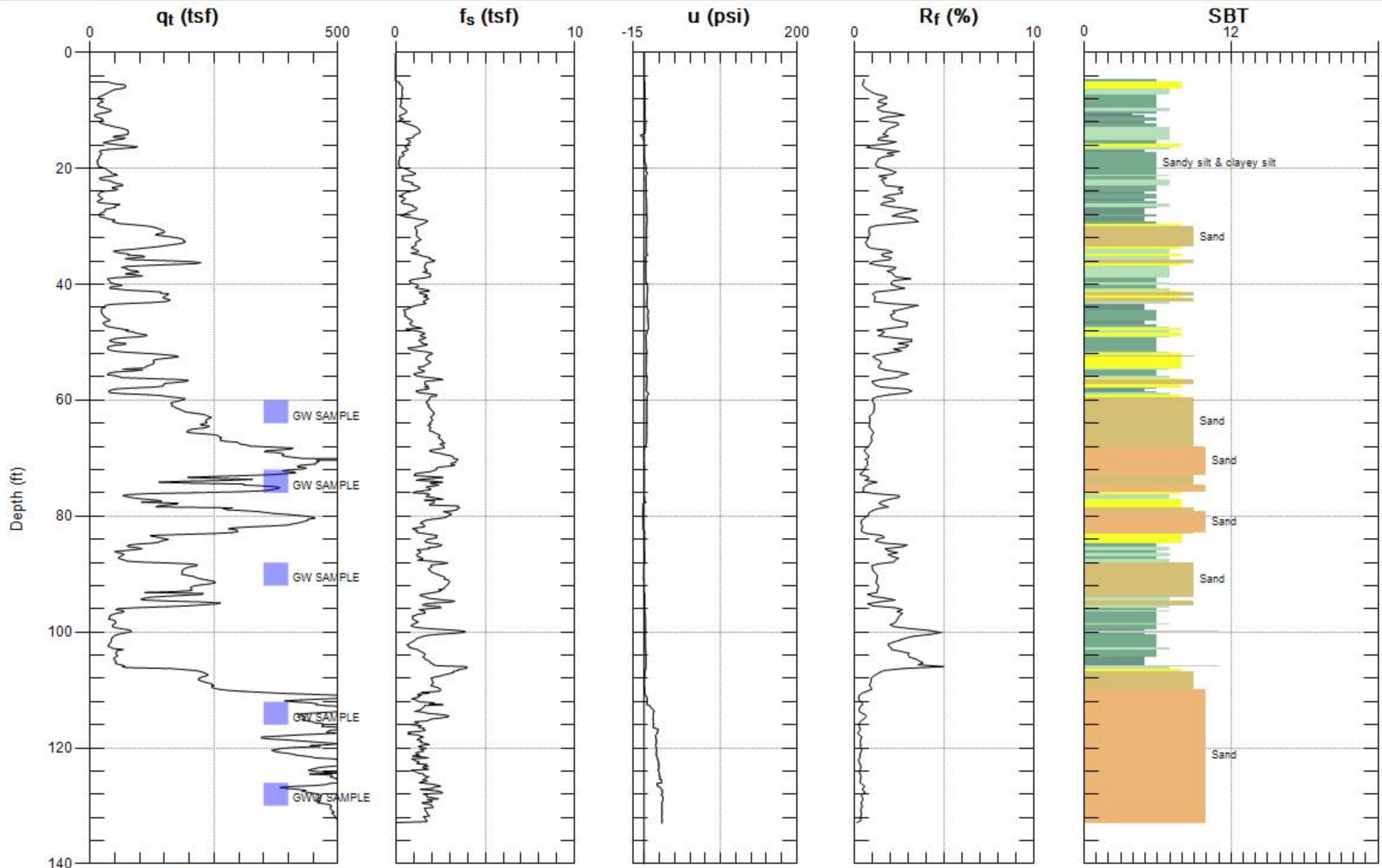
SBT: Soil Behavior Type (Robertson 1990)





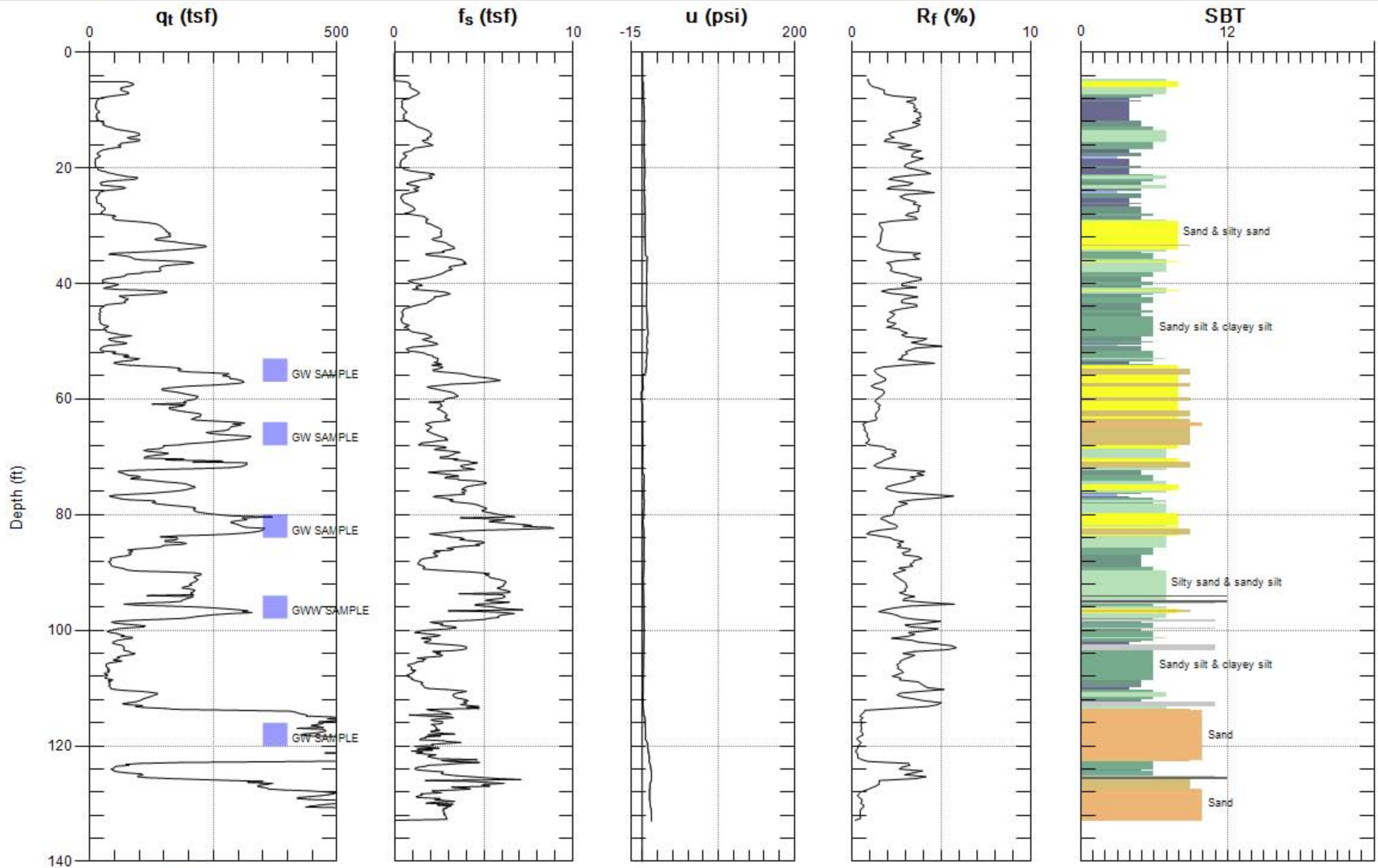
Max. Depth: 134.022 (ft)  
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 133.038 (ft)  
Avg. Interval: 0.328 (ft)

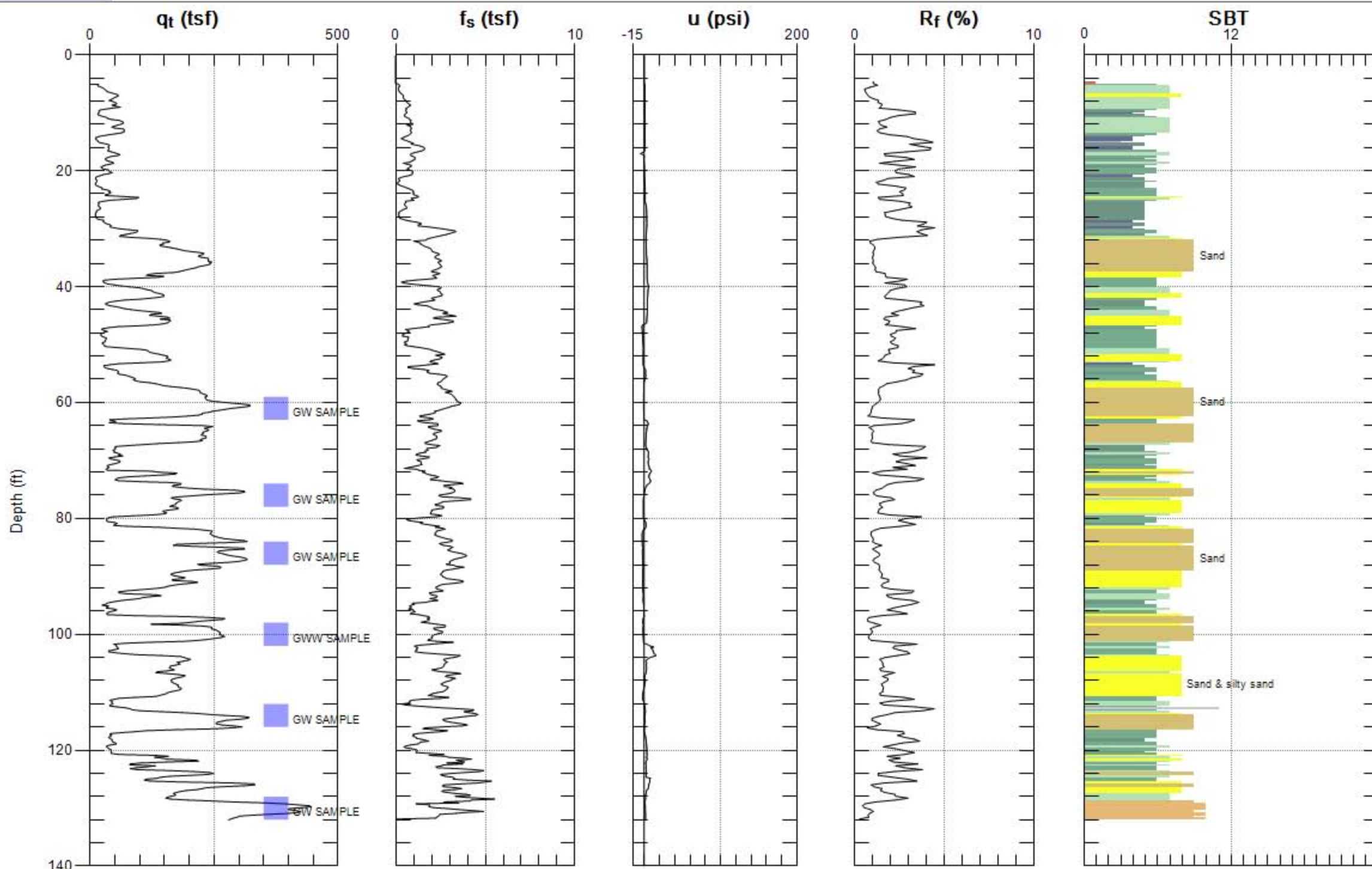
SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 133.038 (ft)  
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

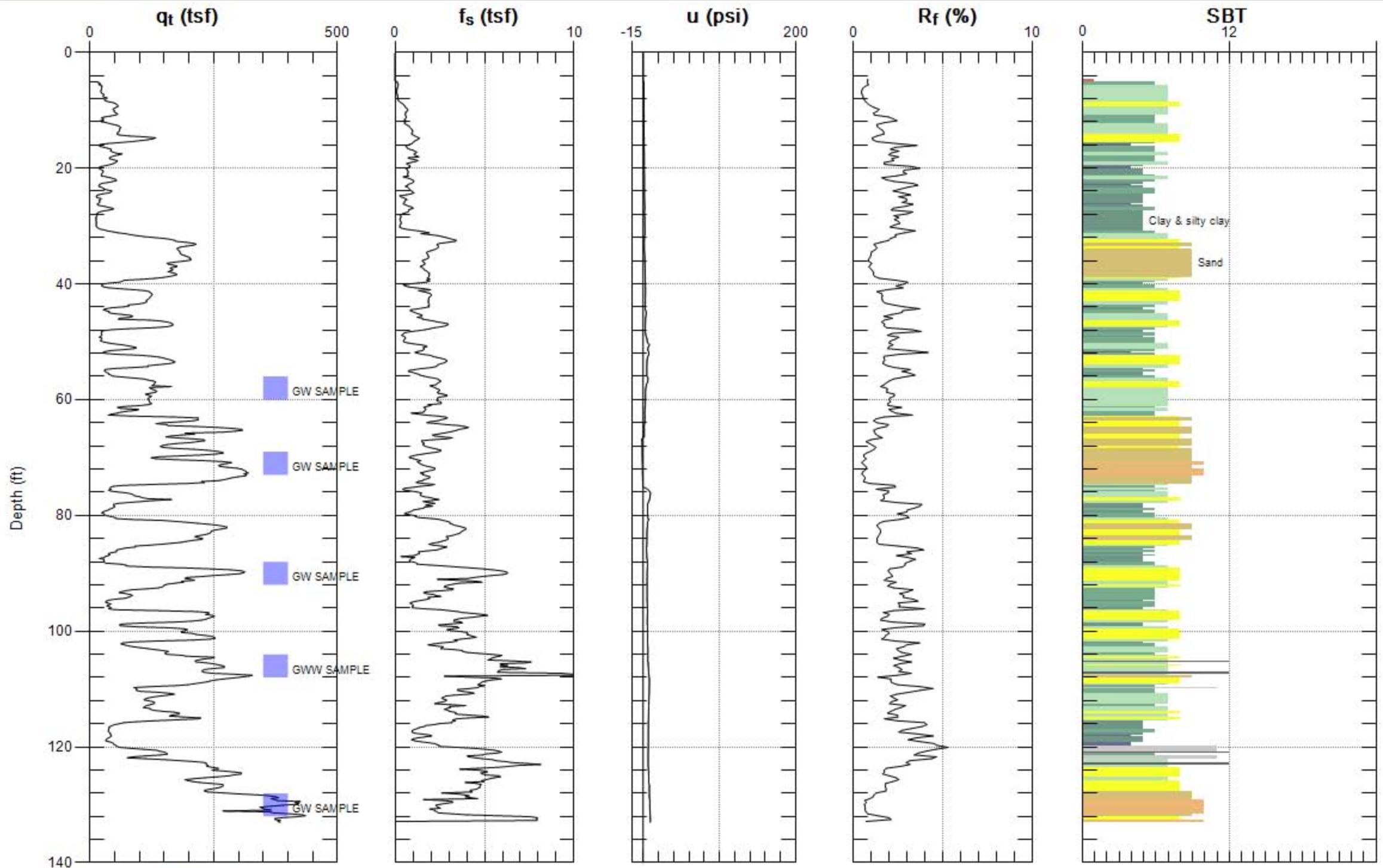




Max. Depth: 132.054 (ft)

Avg. Interval: 0.328 (ft)

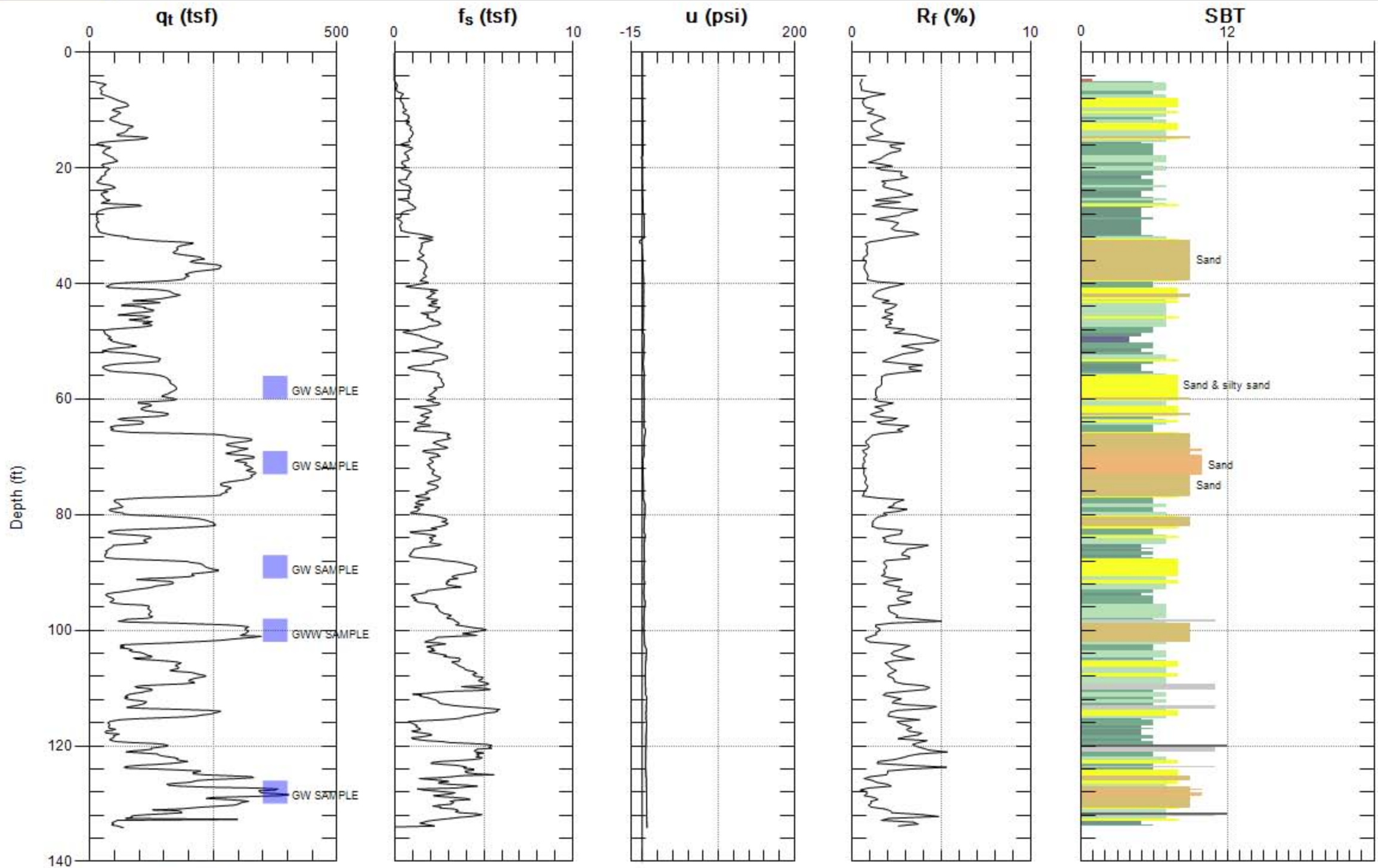
SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 133.038 (ft)  
Avg. Interval: 0.328 (ft)

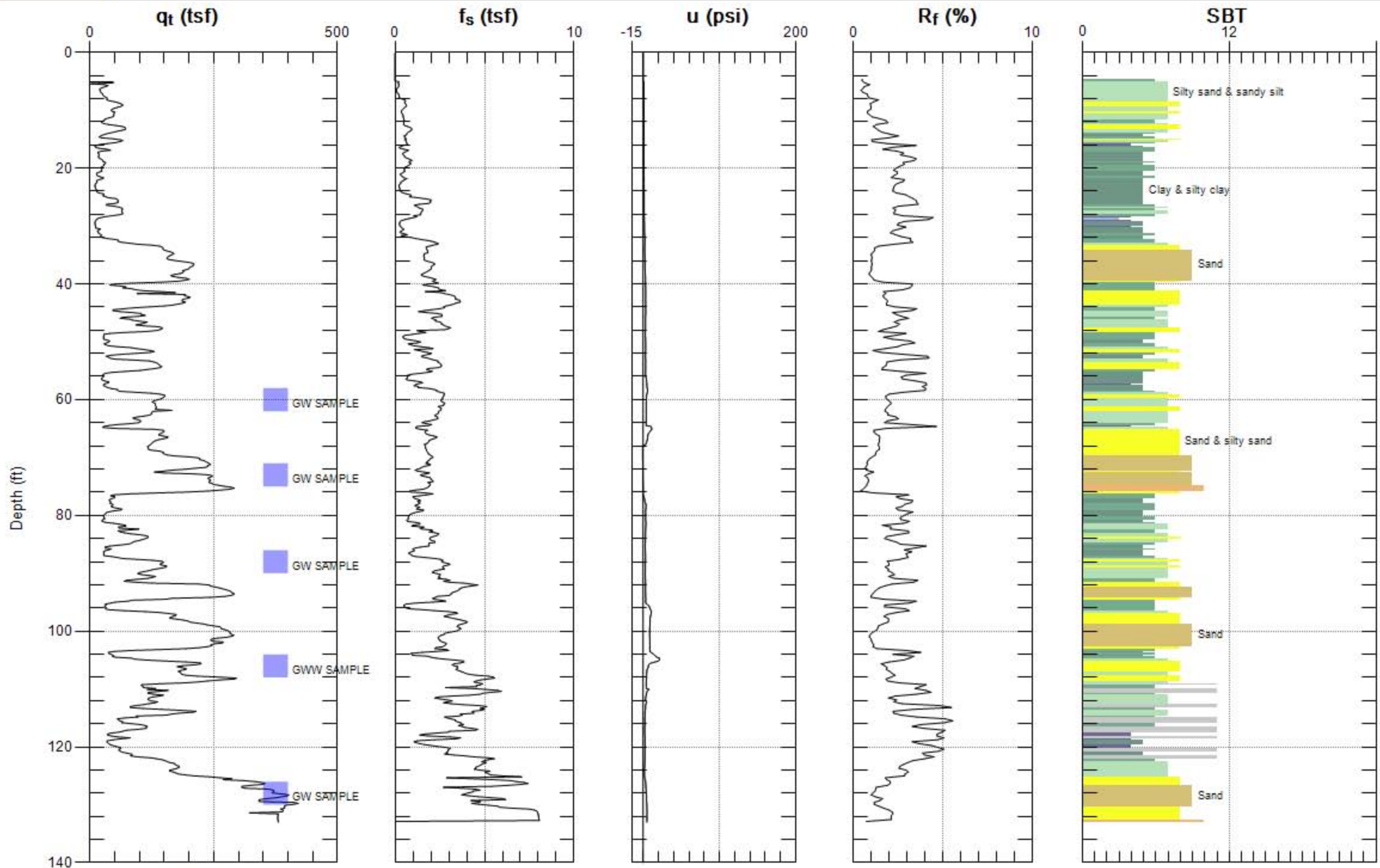
SBT: Soil Behavior Type (Robertson 1990)





Max. Depth: 134.186 (ft)  
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 133.038 (ft)  
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



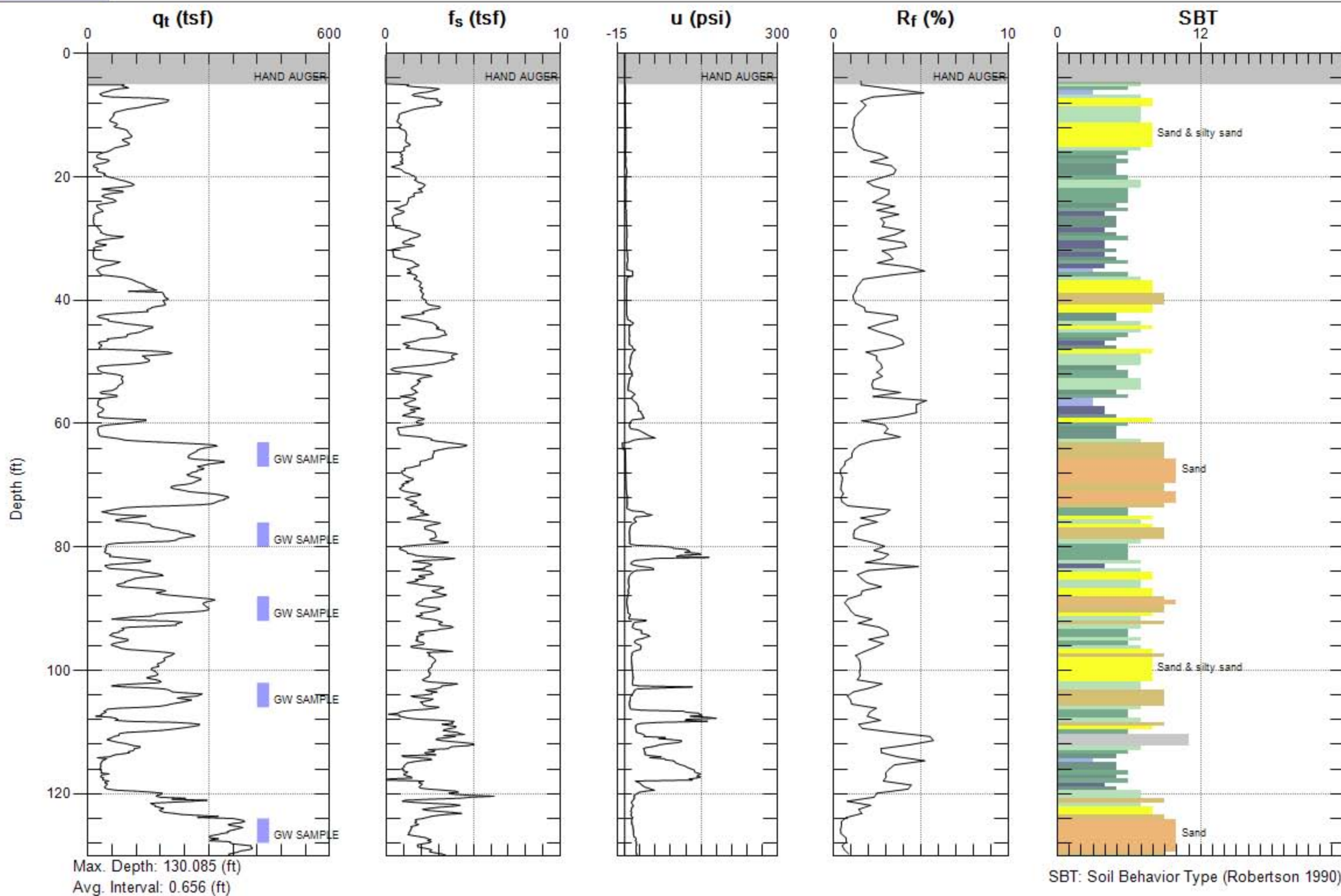
# GILBANE FEDERAL

Site: JERVIS B. WEBB

Engineer: P. PHILLIPS

Sounding: CPT-15

Date: 10/26/2015 09:01







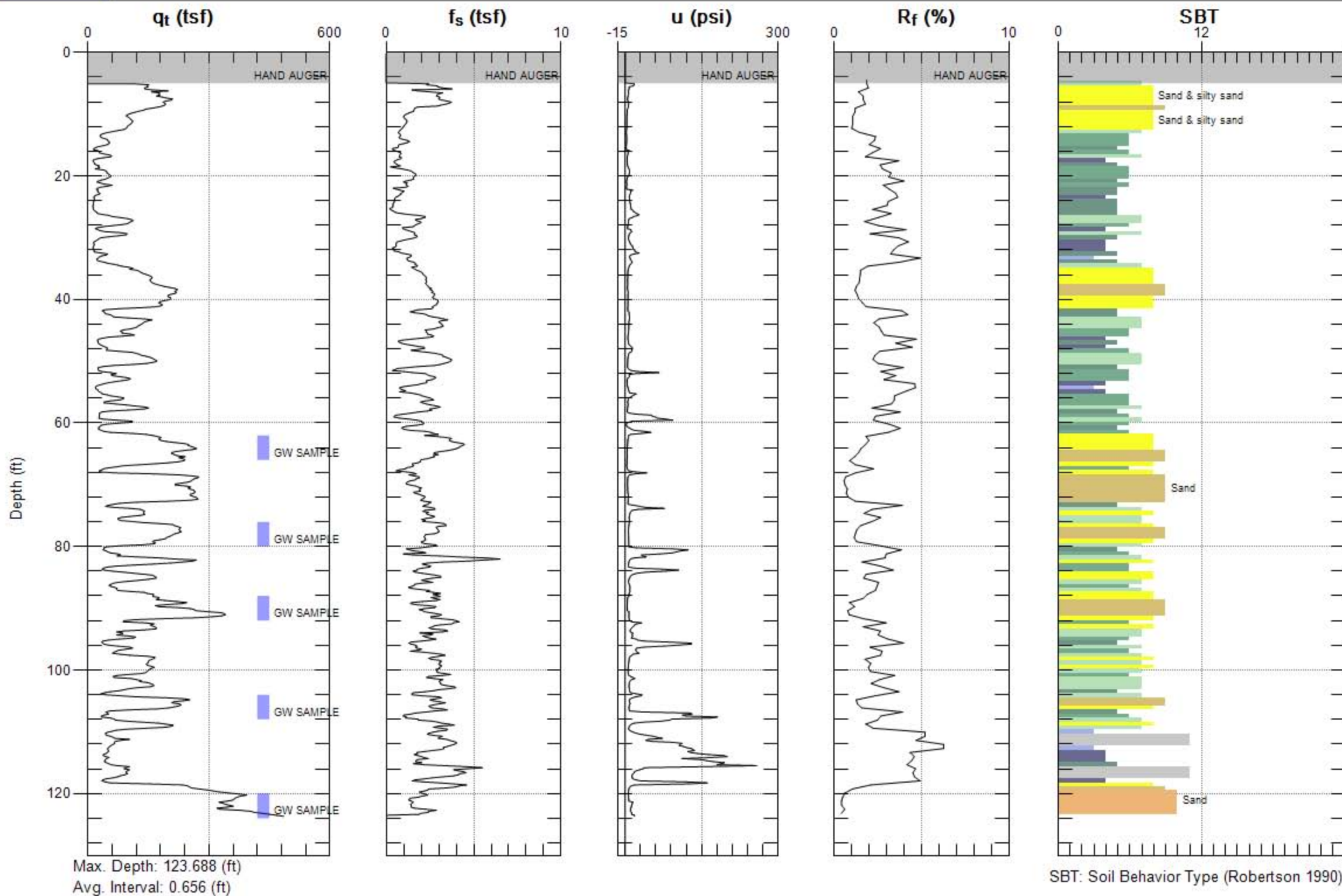
# GILBANE FEDERAL

Site: JERVIS B. WEBB

Sounding: CPT-16

Engineer: P. PHILLIPS

Date: 10/27/2015 09:50





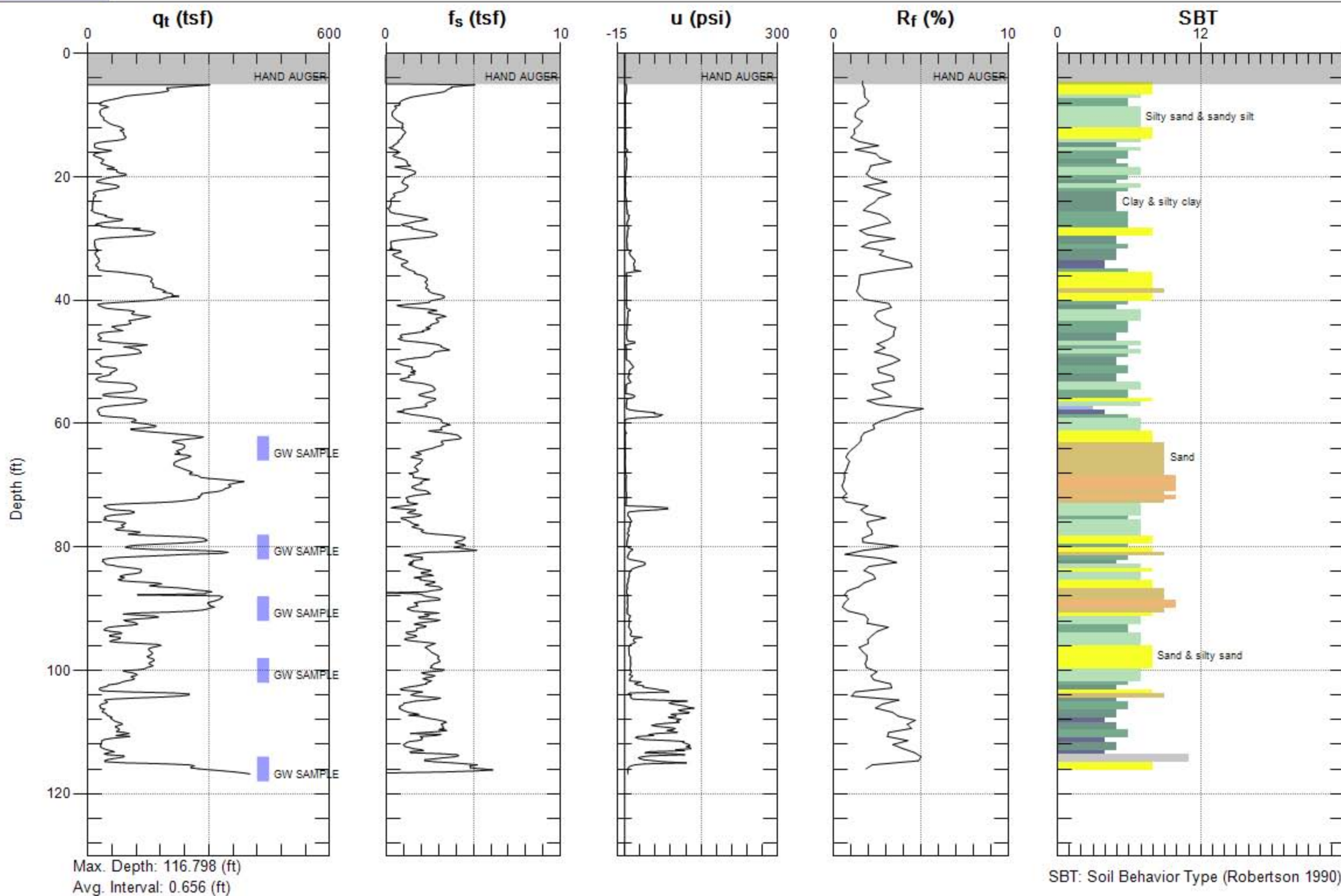
# GILBANE FEDERAL

Site: JERVIS B. WEBB

Sounding: CPT-17

Engineer: P.PHILLIPS

Date: 10/28/2015 07:55







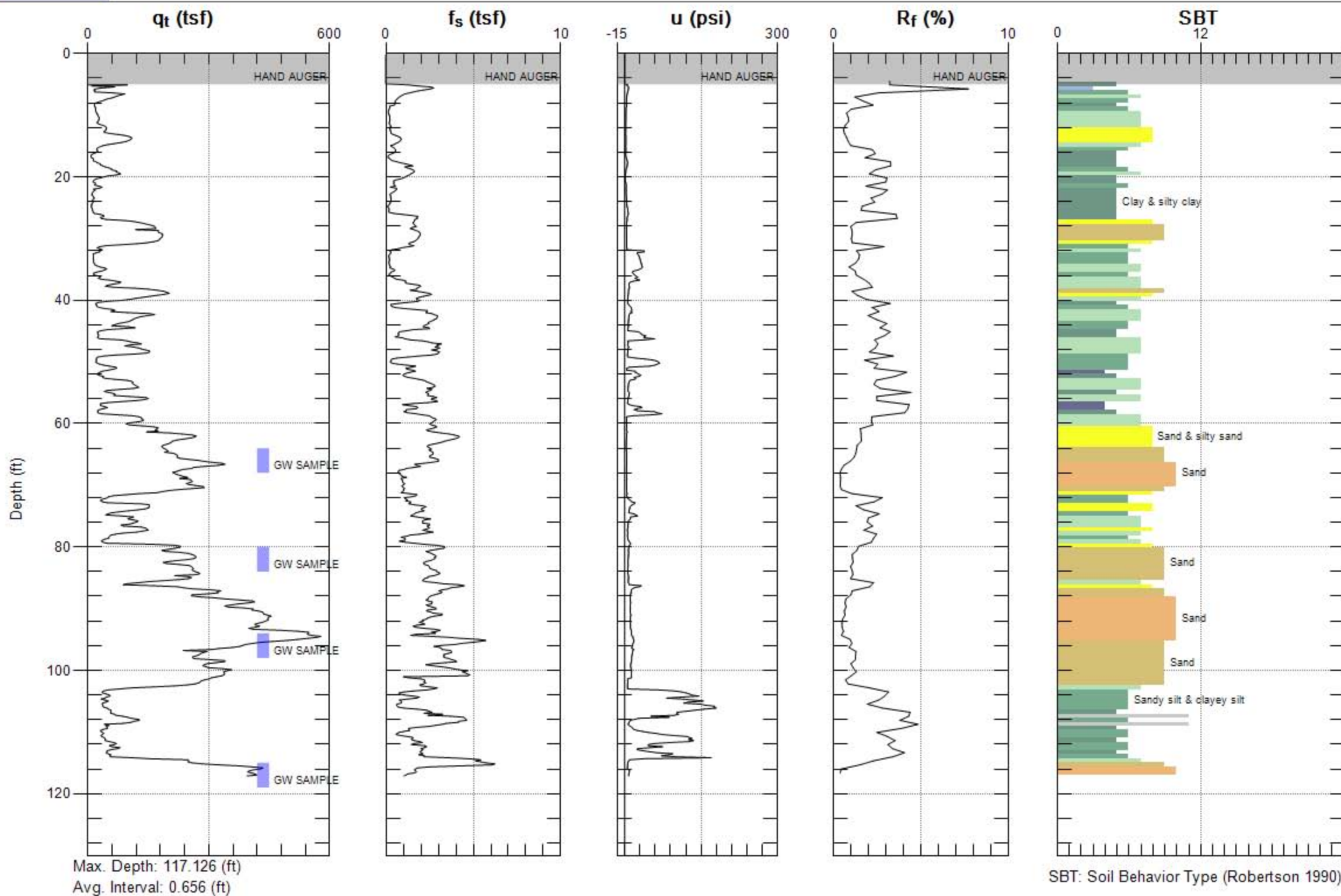
# GILBANE FEDERAL

Site: JERVIS B. WEBB

Sounding: CPT-18

Engineer: P.PHILLIPS

Date: 10/29/2015 07:44





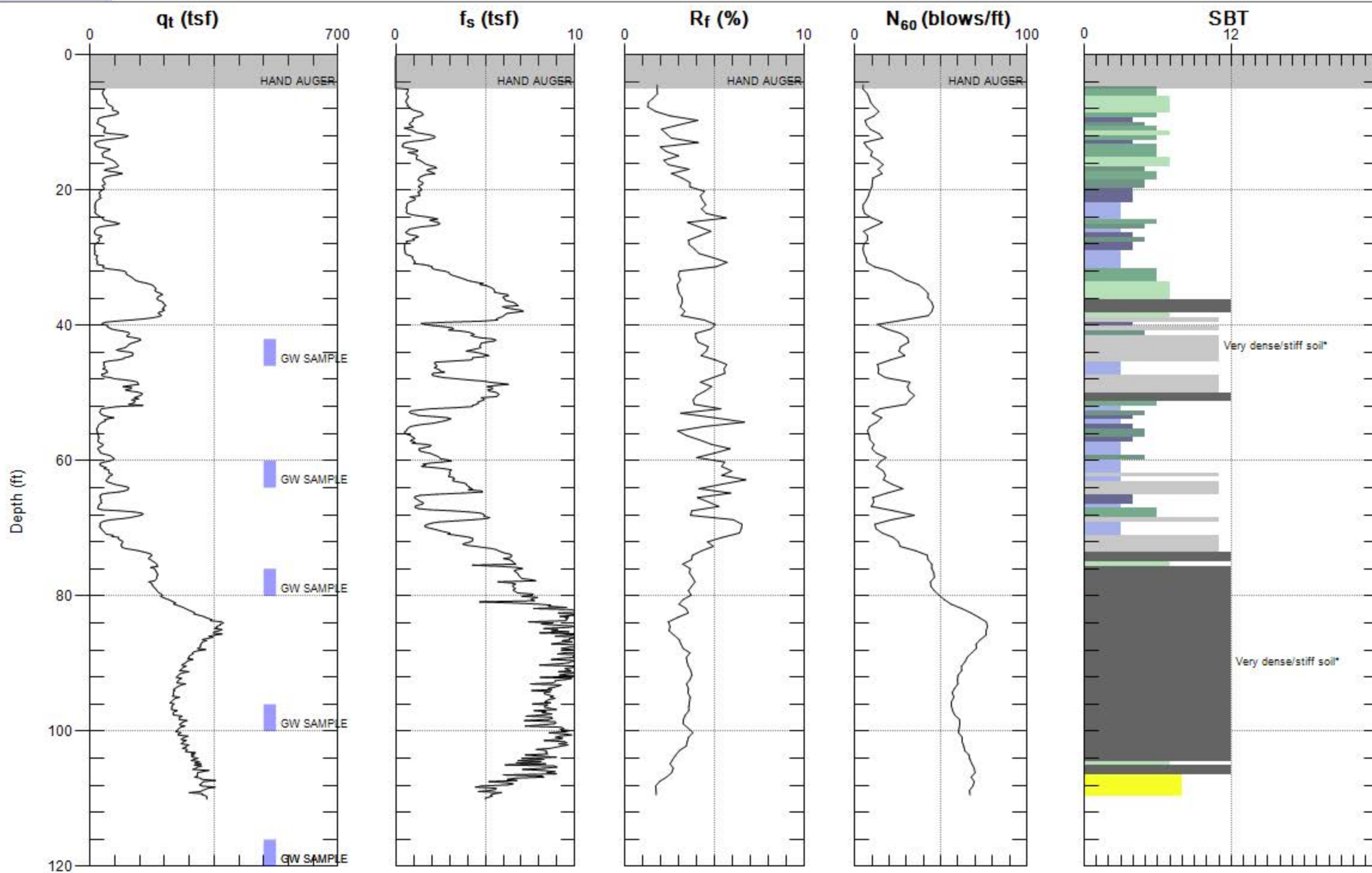
# GILBANE FEDERAL

Site: SAIA

Sounding: Jw-CPT-20

Engineer: R.LEONG

Date: 8/16/2016 07:45



Max. Depth: 110.072 (ft)

Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)



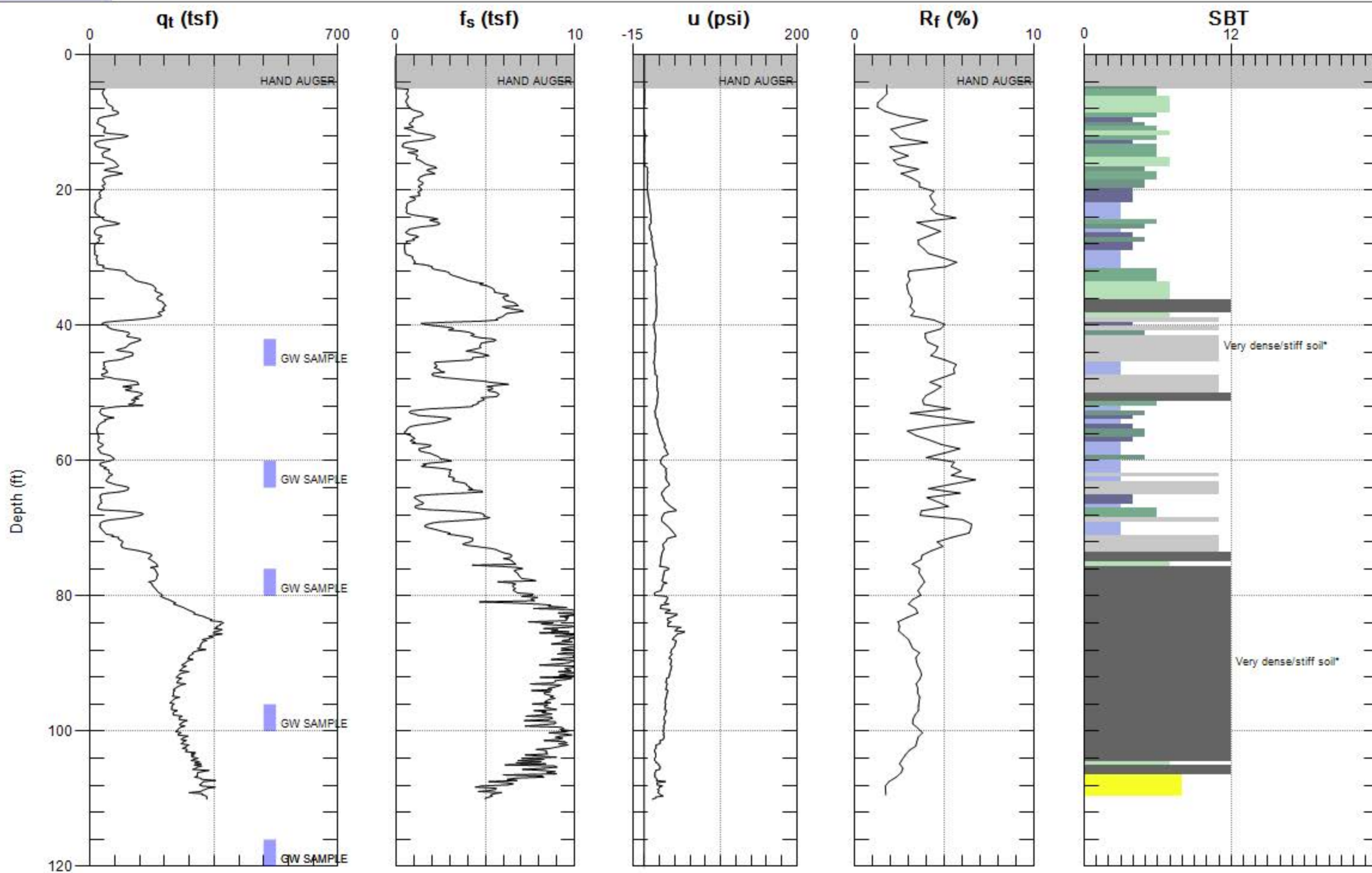
# GILBANE FEDERAL

Site: SAIA

Sounding: Jw-CPT-20

Engineer: R.LEONG

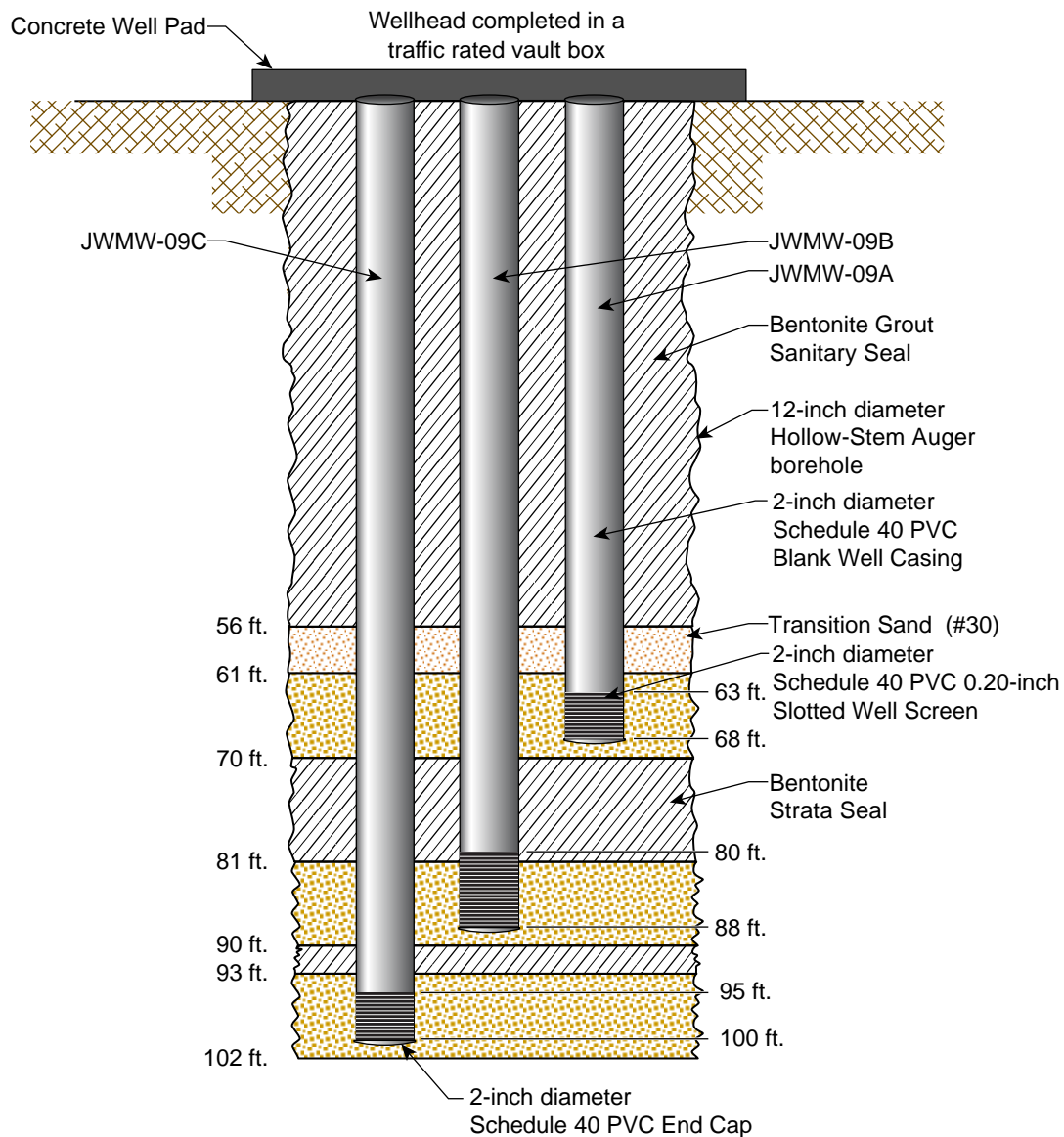
Date: 8/16/2016 07:45



Max. Depth: 110.072 (ft)

Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)



**Notes:**

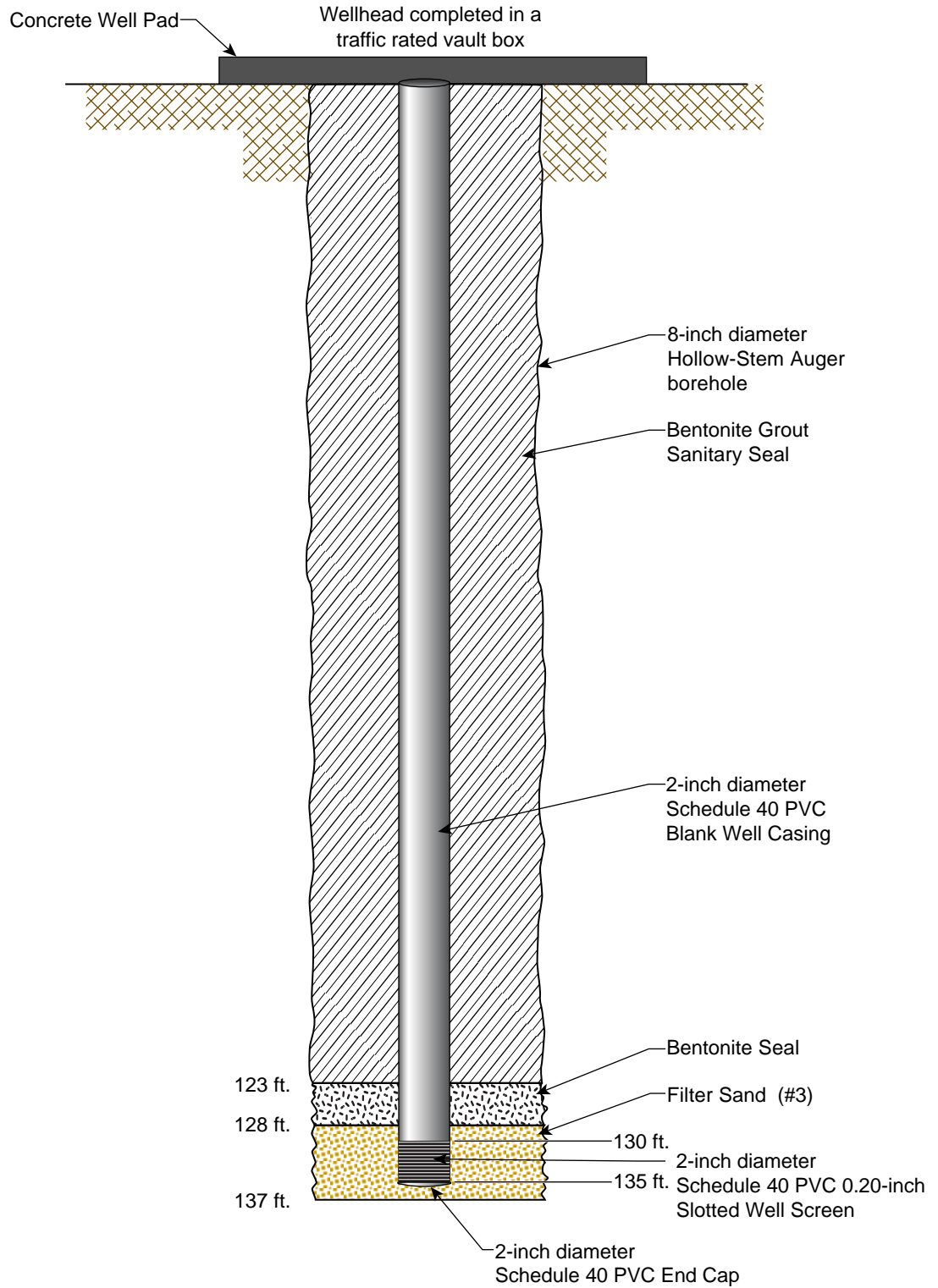
Scale is Approximate  
 All diameters are O.D. except the well screen,  
 which is nominal  
 PVC - polyvinyl chloride



**Jervis Webb Company Superfund Site**  
 Los Angeles County, California  
 US Environmental Protection Agency

**Figure A4**  
 JWMW-09A/B/C As Built





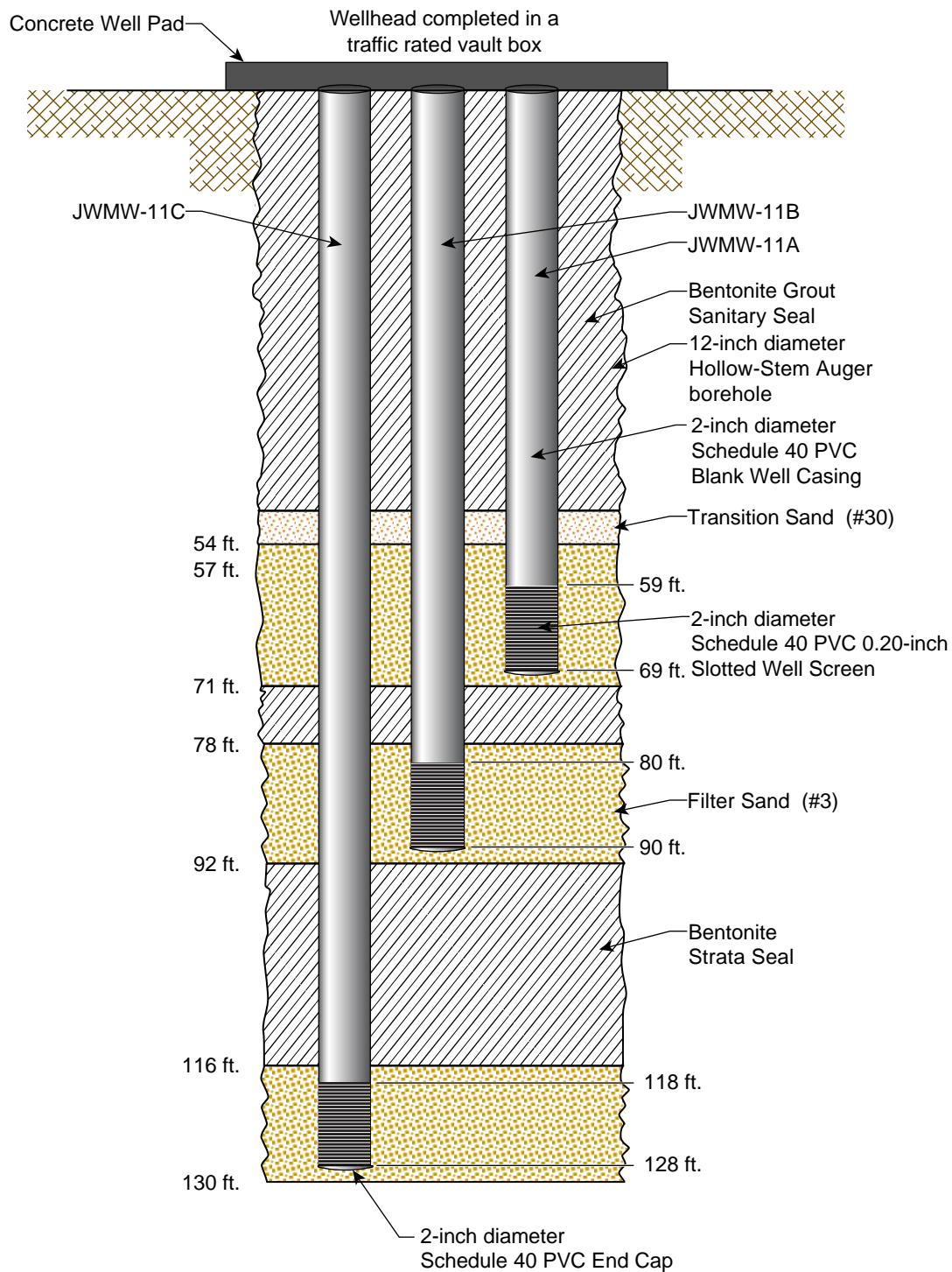
**Notes:**

Scale is Approximate  
 All diameters are O.D. except the well screen,  
 which is nominal  
 PVC - polyvinyl chloride



**Jervis Webb Company Superfund Site**  
 Los Angeles County, California  
 US Environmental Protection Agency

**Figure A5**  
 JWMW-10 As Built



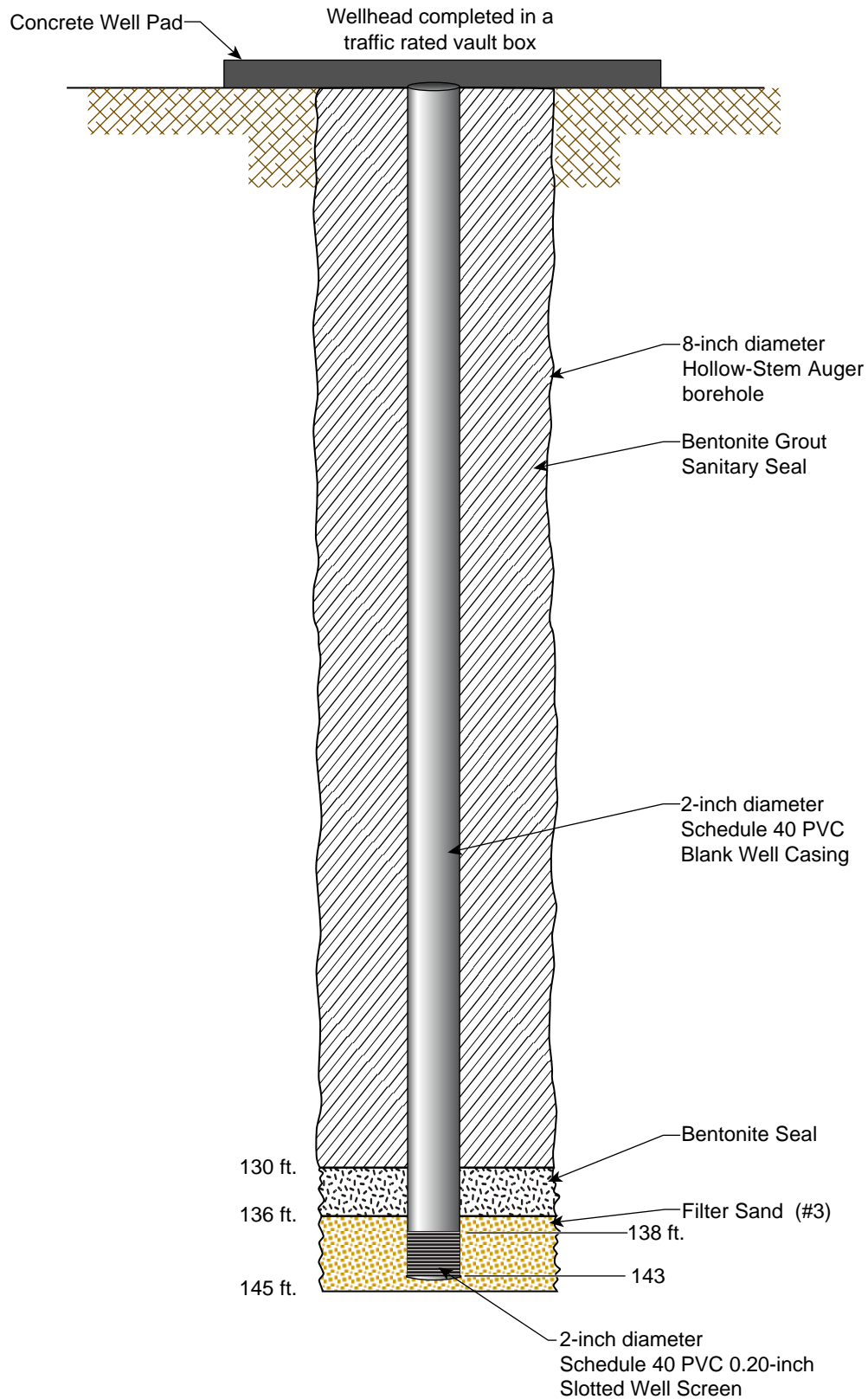
**Notes:**

Scale is Approximate  
 All diameters are O.D. except the well screen,  
 which is nominal  
 PVC - polyvinyl chloride



**Jervis Webb Company Superfund Site**  
 Los Angeles County, California  
 US Environmental Protection Agency

**Figure A6**  
 JWMW-11A/B/C As Built



**Notes:**

Scale is Approximate

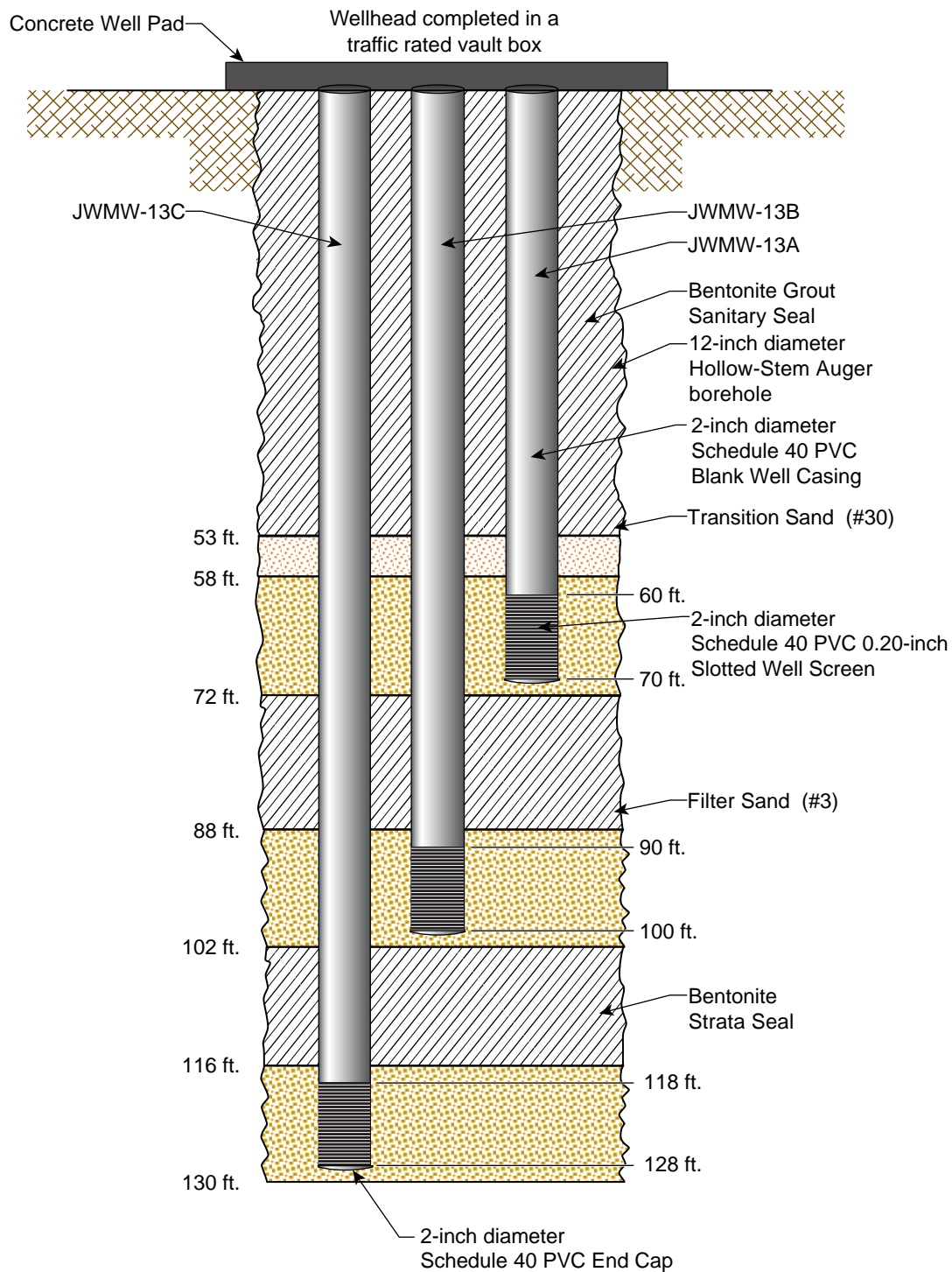
All diameters are O.D. except the well screen, which is nominal

PVC - polyvinyl chloride



**Jervis Webb Company Superfund Site**  
Los Angeles County, California  
US Environmental Protection Agency

**Figure A7**  
JWMW-12 As Built



**Notes:**

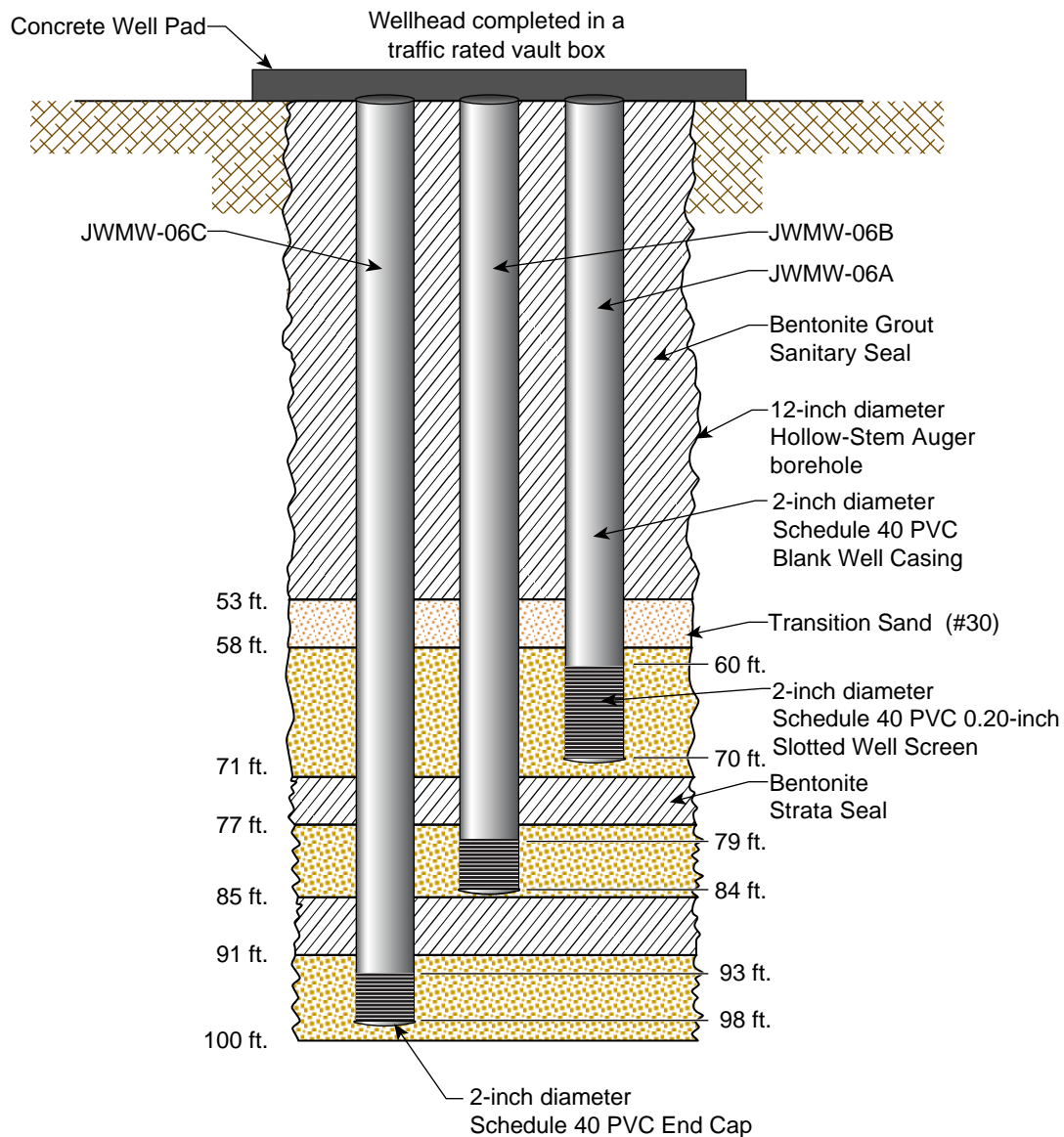
Scale is Approximate  
 All diameters are O.D. except the well screen,  
 which is nominal  
 PVC - polyvinyl chloride



**Jervis Webb Company Superfund Site**  
 Los Angeles County, California  
 US Environmental Protection Agency

**Figure A8**  
 JWMW-13A/B/C As Built





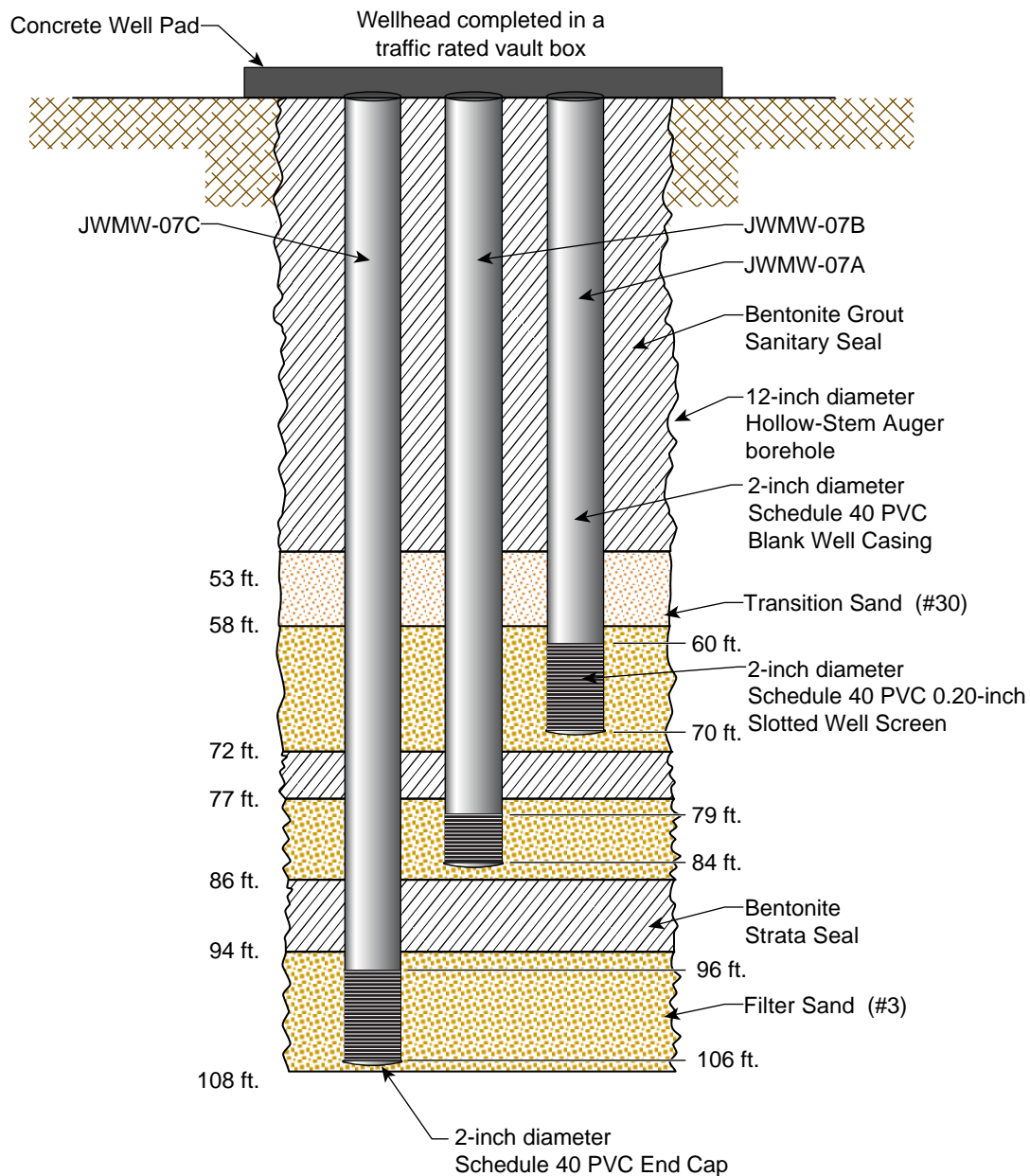
**Notes:**

Scale is Approximate  
 All diameters are O.D. except the well screen,  
 which is nominal  
 PVC - polyvinyl chloride



**Jervis Webb Company Superfund Site**  
 Los Angeles County, California  
 US Environmental Protection Agency

**Figure A1**  
 JWMW-06A/B/C As Built



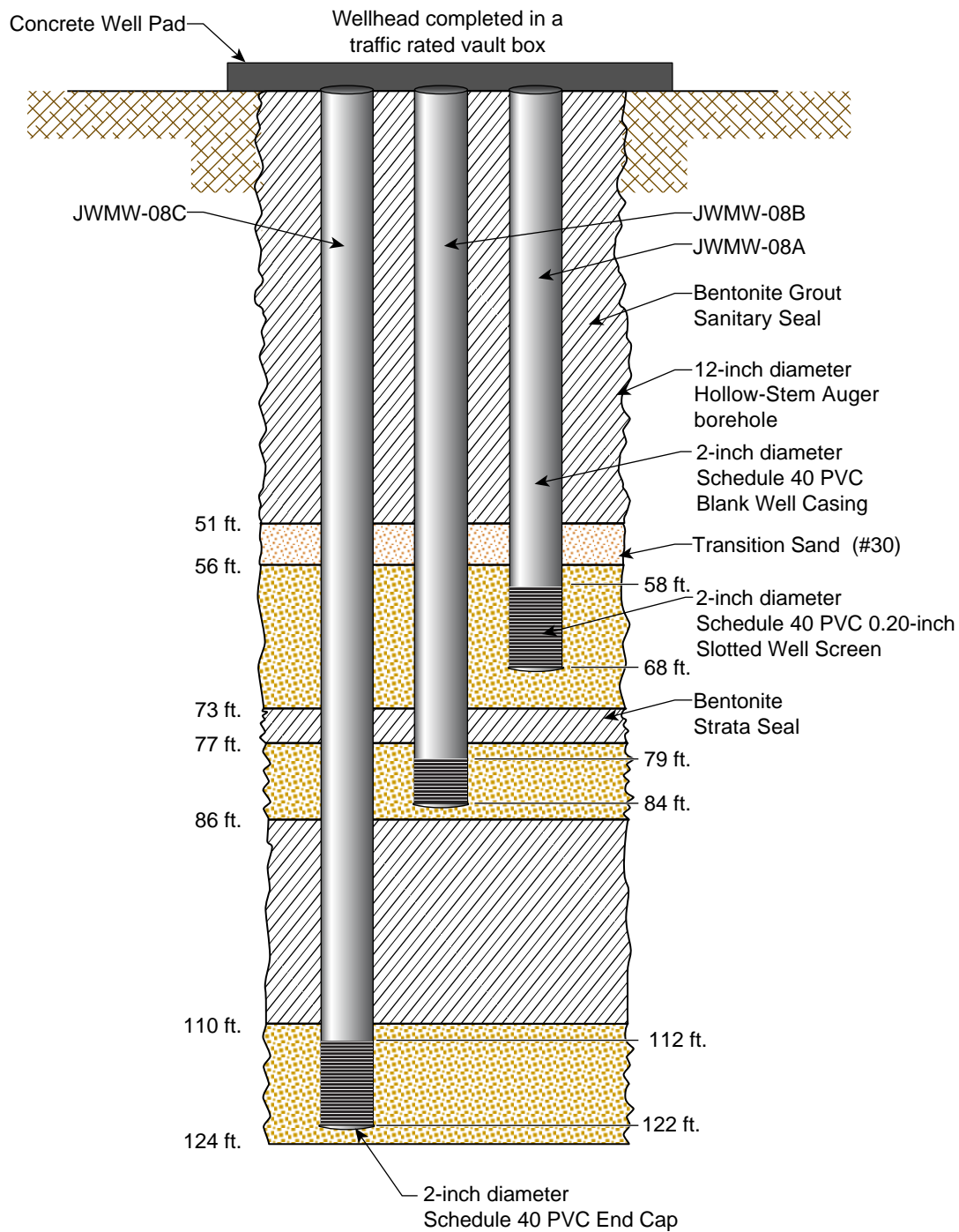
**Notes:**

Scale is Approximate  
 All diameters are O.D. except the well screen,  
 which is nominal  
 PVC - polyvinyl chloride



**Jervis Webb Company Superfund Site**  
 Los Angeles County, California  
 US Environmental Protection Agency

**Figure A2**  
 JWMW-07A/B/C As Built



**Notes:**

Scale is Approximate  
 All diameters are O.D. except the well screen,  
 which is nominal  
 PVC - polyvinyl chloride



**Jervis Webb Company Superfund Site**  
 Los Angeles County, California  
 US Environmental Protection Agency

**Figure A3**  
 JWMW-08A/B/C As Built

*This page intentionally left blank.*